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T-38 STRUCTURAL FLIGHT LOADS DATA
FOR JUNE 1970 THROUGH DECEMBER 1971

Larry E. Clay, et al

Technology, Incorporated

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FOR JUNE 1970 THROUGH DECEMBER 1971**

*LARRY E. CLAY
RONALD I. ROCKAFELLOW
Technology Incorporated*

AD 700001

TECHNICAL REPORT ASD-TR-72-54

APRIL 1973

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13. ABSTRACT In a fifth part of a continuing T-38 Service Loads Recording Program (SLRP) to cover the period from 1 June 1970 through 31 December 1971, 4265 hours of VGH data were recorded by A/A24U-10 magnetic tape recording systems installed in twenty-eight T-38 aircraft: 22 fleet and 6 lead-the-force T-38's operating from Williams, Reese, and Moody Air Force Bases. As in previous reports, the data presentation includes curves showing normal load factor (n_z) exceedances above each n_z level per thousand flight hours. Only one n_z exceeded 7.8 (design limit is 7.33), and the comparison of the exceedance curves for the current and previous programs substantiated that the T-38 n_z spectrum had remained unchanged during the T-38 SLRP. Unique to the current program was the introduction of four mission type data groupings which indicated that training missions had the most severe n_z spectrum and that navigation and general-purpose mission had the least severe n_z spectrum. The data also indicated that the aircraft generally performed maneuvers at gross weights above the 9600-pound design weight. Histograms showing the percentage of time in each of five mission segments revealed that more than 50 percent of the time was spent in cruise and only 12 percent in maneuvers.			

14 KEY WORDS	LINK A		LINK B		LINK C	
	ROLE	WT	ROLE	WT	ROLE	WT
T-38 jet trainer VGH data flight loads operational data aircraft structures A/A24U-10 recorder						

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SECTION I
INTRODUCTION

This report documents 4265 hours of Vgh data recorded on twenty-eight T-38 aircraft during a continuing T-38 Service Loads Recording Program (SLRP). The instrumented T-38's operated from Williams, Reese, and Moody Air Force Bases. All data were delivered to the contractor's data processing center during the period 1 June 1970 through 31 December 1971.

The T-38, shown in Figure 1, is a supersonic jet trainer used for advanced student training and pilot-upgrading missions.

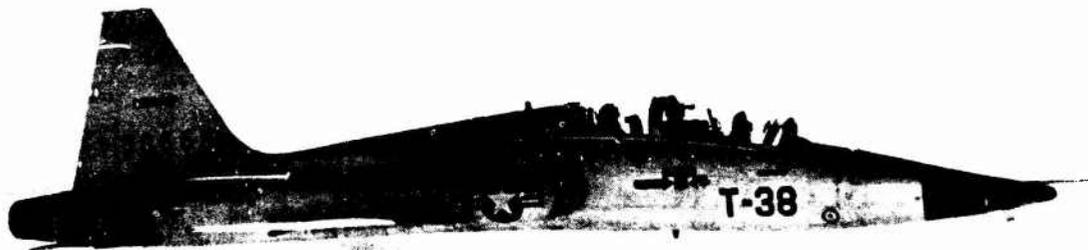


Figure 1. View of T-38 Aircraft

As part of the Aircraft Structural Integrity Program (ASIP), the T-38 SLRP is designed to provide current operational flight data for structural fatigue analyses. Accordingly, under a previous contract, twenty-two fleet and six lead-the-force (LTF) T-38 aircraft were equipped with Vgh magnetic tape recording systems to record airspeed, vertical acceleration, and altitude during flight. In addition, the takeoff and landing fuel weights and the number of pilots per aircraft were written on supplemental data forms to permit the calculation of weight during flight.

In four previous contracts for the T-38 SLRP, reported in References 1 through 4, 7619 and 1588 hours of fleet and LTF T-38 data, respectively, were processed and documented.

During the current phase of the T-38 SLRP, Air Force personnel serviced and maintained the recording equipment, replaced expended magazines, filled out the supplemental data forms, and shipped the data to Technology Incorporated's data processing center. The Company retrieved, processed, analyzed, and documented the data.

After briefly describing the data recording equipment, summarizing the data collection, and explaining the data processing, this report presents the final data and lists conclusions and recommendations.

SECTION II

DISCUSSION

A. Recording System

The T-38 SLRP employs the A/A24U-10 Recording Set (also called the DASR), a digital magnetic tape recorder, as the recording device. The system includes a computer-recorder, an hermetically sealed tape magazine, and a servo-accelerometer which is mounted at the aircraft's center of gravity. Two pressure transducers within the computer-recorder sense static and differential pressure from the aircraft's pitot-static system. The computer converts the differential and static pressures to the corresponding preset intervals of indicated airspeed and pressure altitude before recording them.

The computer-recorder continuously monitors the vertical acceleration and detects and tallies peaks in counters with preset acceleration levels according to the following criteria:

An acceleration peak is any maximum or minimum level preceded and followed by values each at least two recorder levels closer to the 1.0g level-flight reference, where a level is the line separating two adjacent intervals.

In addition, the computer-recorder stores the elapsed time from a 10-minute digital clock and the current indicated airspeed and pressure altitude codes. The contents of all acceleration counters, the elapsed time, and the airspeed and altitude interval codes are transferred to the tape whenever any one of the following four events occurs: (1) the airspeed interval changes, (2) the altitude interval changes, (3) an acceleration counter reaches capacity, or (4) the 10-minute clock completes its cycle. After each data transfer, the acceleration counters are reset to zero and any new airspeed and altitude interval codes are stored. The clock counter is reset only after it completes the 10-minute cycle.

B. Instrumentation and Data Collection

The recording systems in the twenty-eight T-38 aircraft were installed during previous programs as reported in References 1 and 2. During the current phase of the T-38 SLRP, Air Force personnel serviced and maintained the recording equipment. Figure 2 shows the approximate locations of the major recording system components in the T-38 aircraft.

Air Force personnel also performed the data collection task by replacing the tape magazines, completing the supplemental

data forms, and shipping the expended magazines and corresponding supplemental data forms to the data processing facility.

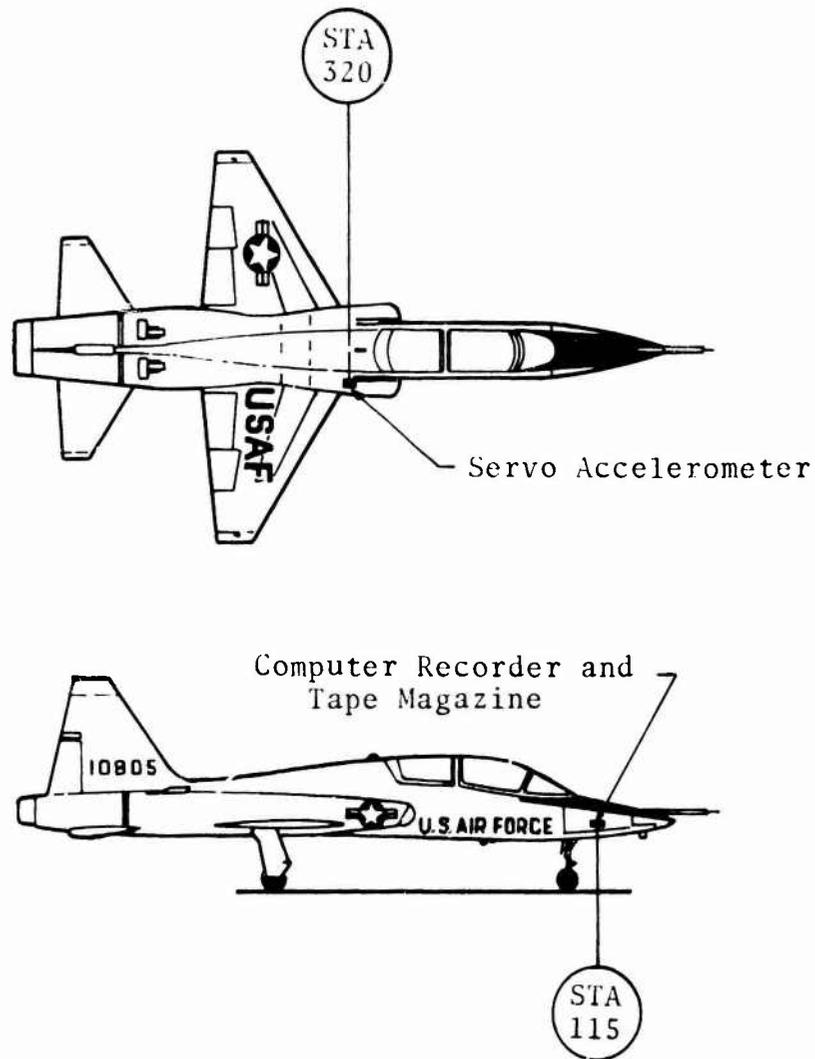


Figure 2. Approximate Installation Positions of Major Recording Systems Components in F-38 Aircraft

A summary of the recorded data received at the data processing facility is listed in Table I. For each instrumented aircraft, this table gives the base, the recorder serial number, the number of magazines received with valid and invalid data, the number of hours represented by valid data, and the airframe hours between the first and last recorded flights.

The data collection rate for the six LTF aircraft decreased so substantially during the current program that only a few magazines were received from these aircraft after January 1971.

TABLE I

Summary of T-38 Data Collection
1 June 1970 through 31 December 1972

Air Base	A/C Ser. No.	Recorder Ser. No.	Air Frame Time(hr) ¹			No. Magazines Rec'd			Valid Data(hrs)	
			Initial	Final	Diff.	Total	Valid ²	Malf.		
<u>T-38 Regular</u>										
Williams	63-8184	437	3484.0	4489.5	1005.5	26	21	5	202.3	
	63-8191	410,95	3911.0	4942.0	1031.0	23	11	12	100.6	
	63-8219	521	3518.0	4283.5	765.5	14	6	8	29.4	
	64-3180	394	3255.0	3977.0	722.0	22	18	4	263.0	
	64-3262	419	2838.0	3687.8	849.8	31	20	11	142.4	
	64-3273	285	3091.0	4054.5	963.5	20	17	3	233.9	
	64-3266	403,85	3174.0	4197.2	1023.2	30	26	4	126.0	
	64-3278	69	3067.0	4127.1	1060.1	29	24	5	285.6	
	64-3279	479	2924.0	4026.5	1102.5	28	27	1	227.4	
	64-3290	506,504	2992.0	3811.1	819.1	28	25	3	159.2	
	64-3301	412	2935.0	3939.1	1004.1	28	25	3	210.6	
	Reese	62-3644	498	4054.0	4835.6	781.6	24	24	--	225.9
		62-3645	154	359.0	4289.7	398.7	21	9	12	95.9
		62-3646	162	4106.0	4739.0	633.0	23	22	1	218.8
		62-3650	156	3826.0	4632.7	805.8	16	14	2	128.8
		62-3651	160	3971.7	4865.3	893.6	32	31	1	216.6
62-3652		159	4044.0	4907.0	863.0	19	6	13	67.7	
62-3653		164	3999.0	4795.0	796.0	26	25	1	254.7	
62-3654		161	3994.0	4378.8	384.8	21	21	--	190.0	
62-3655		146	3852.0	4751.4	899.4	38	37	1	337.5	
62-3656		166	3952.0	4839.2	887.2	21	1	20	7.1	
62-3657		157	3899.0	4619.0	720.0	22	20	2	179.2	
Total					18709.4	542	430	112	3902.6	
<u>T-38 LIF</u>										
Williams		61-0881	147,247	4765.0	5184.5	419.5	17	12	5	127.6
	61-0897	387,373	5346.0	5919.0	573.0	11	1	10	16.1	
Reese	61-0816	UNK ³	UNK	UNK	--	1	--	1	--	
	61-0945	440	4296.3	4570.4	274.1	3	3	--	31.2	
Moody	63-8158	100	3650.2	4086.7	436.5	22	18	4	187.3	
	63-8178	3708,18	4067.0	4619.4	552.4	14	--	14	--	
Total					2255.5	68	34	34	362.2	

¹Extends from first to last recorded flight received.
²Magazines with at least one flight with valid data.
³Unknown - complete supplemental data not received.

C. Data Processing

1. Data Definitions

The intervals for airspeed, altitude, and normal acceleration were defined by the recorder, and 1000-pound intervals were used in processing and presenting the gross weight data.

The mission type and mission segment definitions are listed in Table II.

TABLE II
MISSION TYPE AND MISSION SEGMENT DEFINITIONS

T-38 Mission Types

<u>Mission Type</u>	<u>Definition</u>
Training	Flights with aerobatics and touch-and-go landings with a student pilot aboard.
Formation	Formation flights with a student pilot aboard.
Nav & General	Instruments and Navigation and other cross-country flights with a student pilot aboard.
Administrative	Test flights and other flights with no student pilot aboard.

T-38 Mission Segments

<u>Mission Segment</u>	<u>Definition</u>
Initial Ascent	First climb to a cruise altitude.
Cruise	Straight-and-level flight segments with no significant changes in airspeed, altitude, or acceleration.
Maneuver	Flight segments with airspeed and altitude changes and frequent or large acceleration peaks.
Final Descent	Last major descent before a full-stop landing.
Practice Landing	Flight segments between practice landings.

The equivalent normal load factor (n_{ze}) was calculated from the n_z distributions in each gross weight range. The equivalent normal load factor is defined as

$$n_{ze} = n_z (W_i / W_D)$$

where

- n_z = normal load factor
- W_i = instantaneous gross weight
- W_D = design gross weight = 9,600 pounds.

The n_z peaks recorded by the A/A24U-10 are known only as occurrences in intervals such as 1.4g to 1.8g and 1.8g to 2.2g. Although these intervals suffice to represent load factor spectra, they are too broad to permit calculating n_{ze} exactly. Reference 1 describes the method to distribute the n_z peaks across the width of each n_z interval.

The aircraft weight for any instant during each recorded flight was calculated by using a constant fuel consumption rate based on the engine start and shutdown fuel information for the given flight. An initial burnoff of 400 pounds was assumed to account for the start-up, taxi, and takeoff before the start of the ascent.

As described in Reference 1, the method for calculating the equivalent airspeed (V_e) is similar to that for n_{ze} .

2. Data Processing Operations

The data processing consisted basically of three major operations: (1) data retrieval, (2) reporting on data and equipment, and (3) final processing.

First, the data on the tape magazines were retrieved by the MXU-386/E flight data reproducer which transcribed the data onto a computer-compatible tape. The magazines were then erased, identified as being either serviceable or repairable, and shipped to the supply depot at Tinker AFB, Oklahoma.

Next, a preprocessing run on the data tape produced a preliminary printout to permit checking the data validity and the equipment operation. This printout, along with the history of each recording set and tape magazine, enabled personnel to prepare weekly reports. These reports detailed the status of the data and equipment, isolated any malfunctions in the equipment, and suggested remedial action for base personnel. Copies of these reports were sent to ASD at WPAFB, the repair center at OCAMA, and base personnel at Williams, Reese, and Moody Air Force Bases.

The preliminary data printout was also used to isolate and match data flights to the supplemental data forms supplied by the base. The form to log the supplemental information was changed in May of 1970 from AFTO Form 131 to Technology Incorporated DP Form 1304. The new form was introduced to simplify the logging and to classify the mission types in more meaningful categories, as listed in Table II. These categories were used in processing the data for this report.

After the supplemental data and the mission segment boundaries were entered manually and all ground data was deleted, the valid VGH data was computer-processed. The processed data was then checked for validity on a flight-by-flight basis. Once the data was determined to be correct, it was accepted onto a master file where the Regular and Lead-the-Force data were kept on separate tapes. This file was used to generate the various data tables presented in this report.

D. Data Presentation

Because of the amount of data, the discussion of the data results is included in this section, but the corresponding data figures and tables are included in Appendices A through D. The times in the computer tabulations have been rounded to the nearest 0.1 hour. Times below 0.05 hour (3 minutes) are represented by 0.0. Zero times are represented by a blank. Tables containing no peaks and less than 3 minutes of time have been omitted.

1. Composite Data (see Appendix A)

The data from the 6 LTF T-38's and that from the 22 fleet T-38's, designated "T-38 LTF" and "T-38 Regular," respectively, were treated separately. Figure 3 presents n_z exceedance (n_z peaks per thousand flight hours above each n_z level) curves for the two sets of data. For comparison with the current data, this figure also includes exceedance curves for four previous T-38 SLRP programs (see References 1 through 4). As apparent, all curves are generally the same.

For the current T-38 Regular and T-38 LTF, Figure 4 presents a tabulation and plot of n_z peak frequencies in n_z versus indicated airspeed intervals. As taken from Reference 5, the design V-n envelope serving as a reference in the plot is for the 8000-pound gross weight and sea-level condition. As apparent, only one n_z peak over 7.8 was recorded (the design limit is 7.33). Most of the symbols above the curved part of the envelope represent n_z 's whose corresponding airspeed intervals were too low because of the recorder peak detection logic which registers the peak in the airspeed interval at the end of the n_z activity instead of at the peak (see Reference 1).

The mean exceedance curves and the upper 90 percent tolerance limit on these curves are plotted in Figure 5 for the T-38 Regular and T-38 LTF data. Assuming that the exceedances of the individual aircraft have a Gaussian distribution, 90 percent of the fleet and LTF T-38's would have exceedance values below their respective tolerance limit curves.

For the composite data, Figure 6 compares incremental equivalent normal load factor (n_{z0}) and incremental normal load factor (n_z) curves. The two curves agree closely in the negative n_z region, but the Δn_{z0} curve is slightly higher in the positive n_z region which indicates that the aircraft generally performed maneuvers at gross weights above the 9600-pound design weight.

Table III and Figure 7 present the positive and negative Δn_z peaks for both the T-38 Regular and the T-38 LTF data broken down by air base. The Δn_z spectra for all the bases are almost equal.

2. Mission Type Data (see Appendix B)

The four mission types are compared in Figure 8 which shows both positive n_z and negative Δn_z exceedance curves for each type in both the T-38 Regular and the T-38 LTF data. As seen here, the Training mission data has the most severe positive n_z spectrum, and the Administrative mission data which includes test flight data has the most severe negative Δn_z spectrum. For the T-38 Regular data, the Nav & General mission has the least severe n_z spectra. For the T-38 LTF data, however, the Nav & General and the Formation mission curves are generally

equal and less severe than the curves for the other two mission types.

For each mission type, Table IV lists n_z peaks in n_{ze} intervals versus aircraft serial number (tail number).

3. Mission Segment Data (see Appendix C)

The five mission segments are compared in Figure 9 which shows both positive n_z and negative Δn_z exceedance curves for each segment in both the T-38 Regular and the T-38 LTF data. Of the positive and the negative curves for both the T-38 Regular and the T-38 LTF data, those for the Maneuver mission segment spectrum are by far the most severe. For each mission segment, Table V lists the n_z peak frequencies in n_z intervals.

For each mission type, Figure 10 depicts in histogram form the percentage of total mission time in each mission segment. More than 50 percent of the composite flight time was spent in the cruise mission segment. The most severe mission segment, Maneuver, accounted for only 12 percent of the composite flight time.

For each of the four mission segments, a figure was prepared to present (1) positive and negative Δn_z exceedances for each mission type and the composite of all missions, (2) the percentage of total mission segment time in each equivalent airspeed interval for each mission type and the composite of all missions, (3) the percentage of total mission segment time in each pressure altitude interval for each mission type and the composite of all missions, and (4) the percentage of total mission segment time in each aircraft gross weight interval for each mission type and the composite of all missions. Figures 11, 12, 13, 14, and 15 present the above data for the Initial Ascent, Cruise, Maneuver, Final Descent, and Practice Landing mission segments, respectively.

Also for each mission segment, Table VI lists the n_{ze} frequencies in a breakdown by mission type.

4. Additional Data Tabulations (see Appendix D)

Tables VII through X include additional T-38 data which could not be included in the above categories. As mentioned above, time entries of 0.0 hours in these tables indicate times greater than zero but less than 3 minutes.

With a breakdown by mission type, Table VII distributes the frequencies of n_z peaks in n_z versus gross weight intervals for each mission segment.

For all mission types in the T-38 Regular data and for the Training and the Nav & General missions in the T-38 LTF data,

Table VIII presents n_z peak frequencies in n_z versus equivalent airspeed intervals with a progressive breakdown by mission type, gross weight, and altitude. In the other two mission types of the T-38 LTF flights, the data was insufficient to be meaningful in this type of tabulation.

With a breakdown by altitude, Table IX lists the frequencies of n_z peaks in n_{z_c} versus equivalent airspeed intervals, and Table X lists the same data broken down further by mission type.

The average flight duration and the average number of touch-and-go landings per flight were 66 minutes and 1.25 for the Regular T-38's and 65 minutes and 0.98 for the LTF T-38's. In the composite data, as shown in Table XI, the average number of touch-and-go landings per flight were 2, 1, 0.30, and 0.35 for the Training, Formation, Nav & General, and Administrative missions, respectively. The comparison of the current data and the 1963-64 T-38 data (Reference 4) shows that the average number of touch-and-go landings per flight in the current data remained about the same in the Formation missions, decreased 25 and 60 percent in the Training and the Administrative missions, respectively, and increased 50 percent in the Nav & General missions.

SECTION III

SUMMARY AND CONCLUSIONS

1. The n_z spectrum for the current T-38 SLRP phase has not changed from those recorded during the previous phases.
2. There is no significant difference between the n_z spectra recorded at Williams, Reese, and Moody Air Force Bases.
3. Only one n_z peak exceeded 7.8g during the current T-38 SLRP phase.
4. The new mission type data groupings, introduced in June 1970, permit a more rational presentation of the data. During the current T-38 SLRP phase, the Training and the Nav & General missions had the most and the least severe n_z spectra, respectively.

SECTION IV

RECOMMENDATIONS

1. The A/A24U-10 Recording Set should be redesigned so that each acceleration peak can be associated with the airspeed and altitude intervals at the peak.
2. The T-38 flight loads program should incorporate a better field test set (one that tests the data from the tape magazine to ascertain that the recorder is writing valid data on the tape) to detect malfunctioning recording systems before recording a full magazine of invalid data.
3. If feasible, a cockpit mission-type selector switch and a fuel-quantity sensor should be incorporated in the recording system and their signals should be recorded in the spare word position of the A/A24-10 Recording Set to eliminate the need for supplemental data in the T-38 SLRP.

APPENDIX A
COMPOSITE DATA

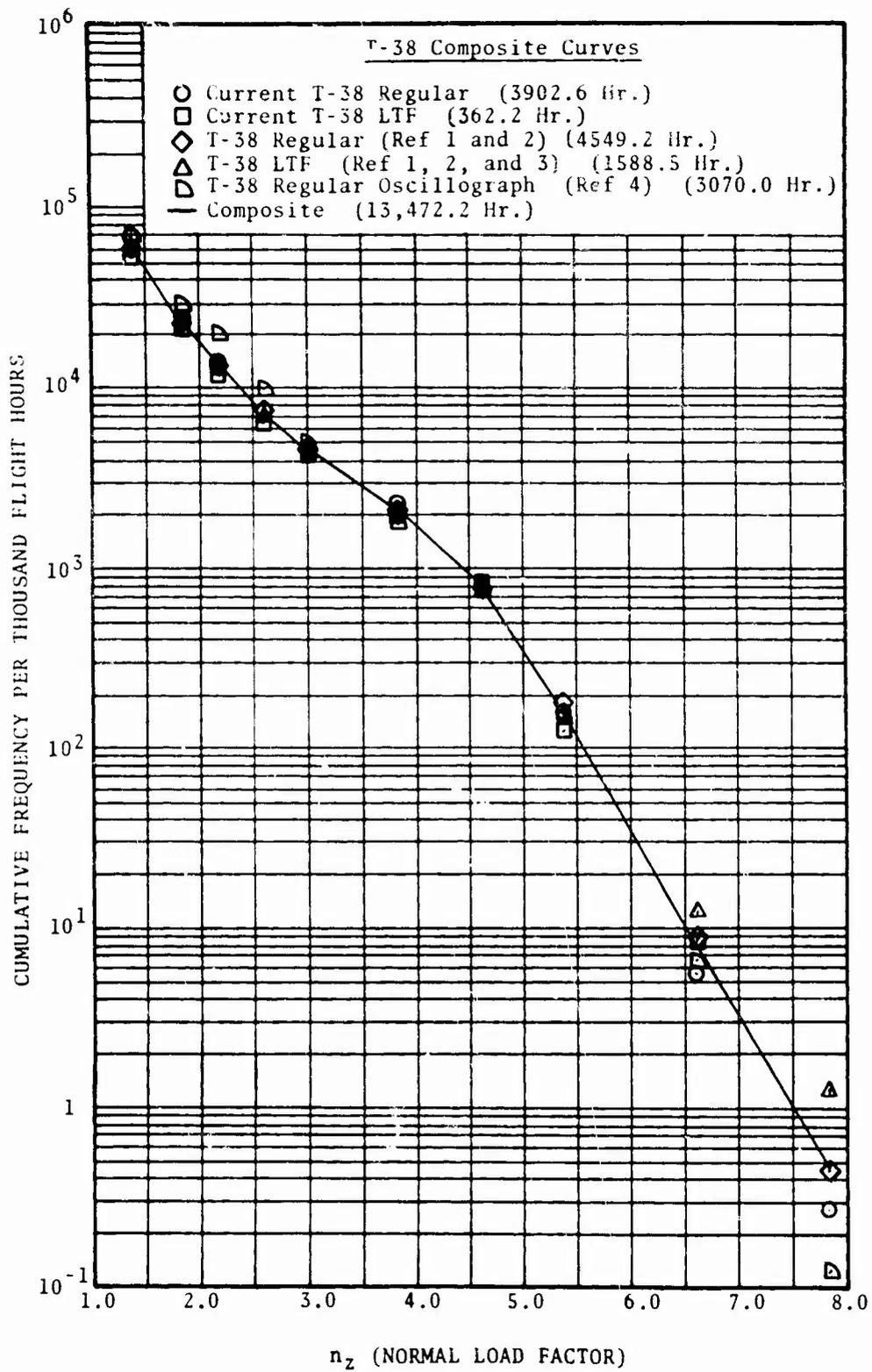
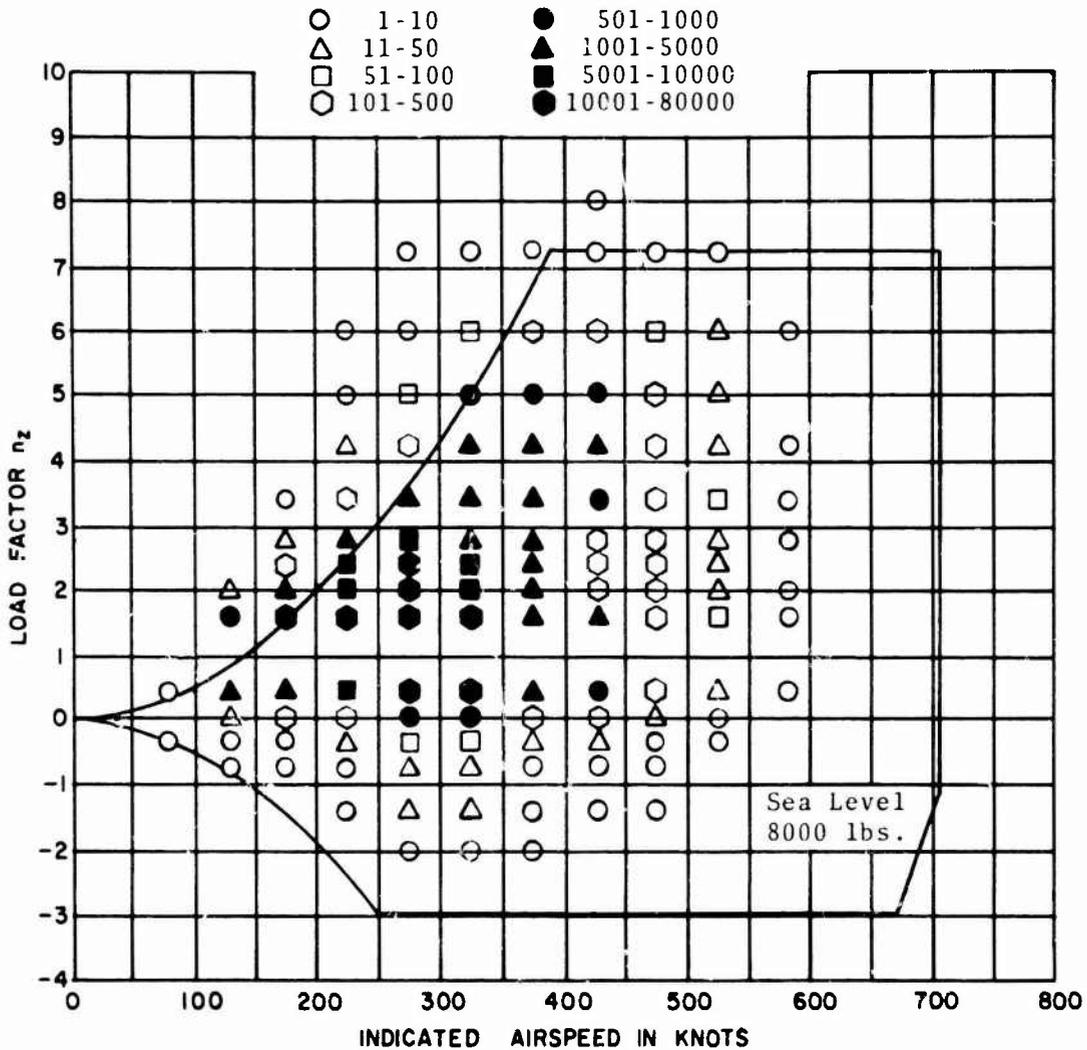


Figure 3. Composite n_z Exceedance Curves for Current and Past T-38 Data

AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.0	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
LESS						7											0.2
100			1	2	31	2219	739	14									11.8
150			1	3	210	3460	17796	3850									263.8
200			6	11	335	8986	28190	6213	9311	1559	413						670.9
250	1	3	20	35	895	31478	79408	18597	12073	5066	2172	491	3	2			1640.4
300	2	28	28	71	607	13185	42611	9724	5383	2638	2810	1763	964	160	1		1094.2
350	2	8	4	24	206	2244	4686	1482	1128	1178	2124	1631	640	211	5		167.8
400		2	5	12	103	724	1046	402	352	375	699	1114	654	145	7	1	37.7
450		1	1	4	39	360	411	184	144	160	383	353	230	99	4		14.0
500				1	4	41	57	33	15	25	59	46	30	13	2		2.0
550						2	3	3			2	3		1			0.0
625																	
700																	
TOTAL	5	68	66	187	2430	62706	170953	40904	25648	11021	8863	5422	2592	576	20		3602.6

T-38 Regular: n_z Peak Frequencies
(3902.6 Hrs.)

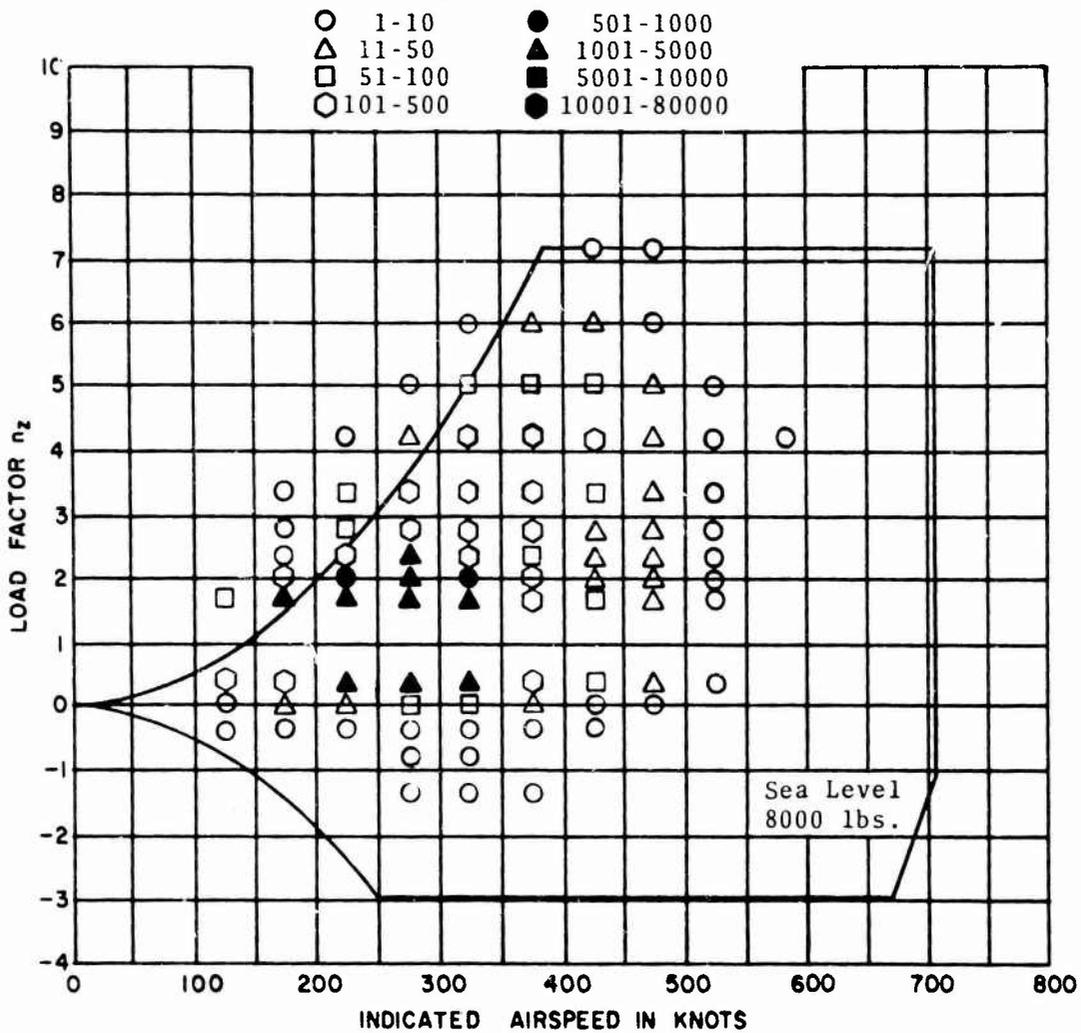


a. T-38 Regular

Figure 4. Plot and Tabulation of n_z Peaks in n_z versus Indicated Airspeed Intervals

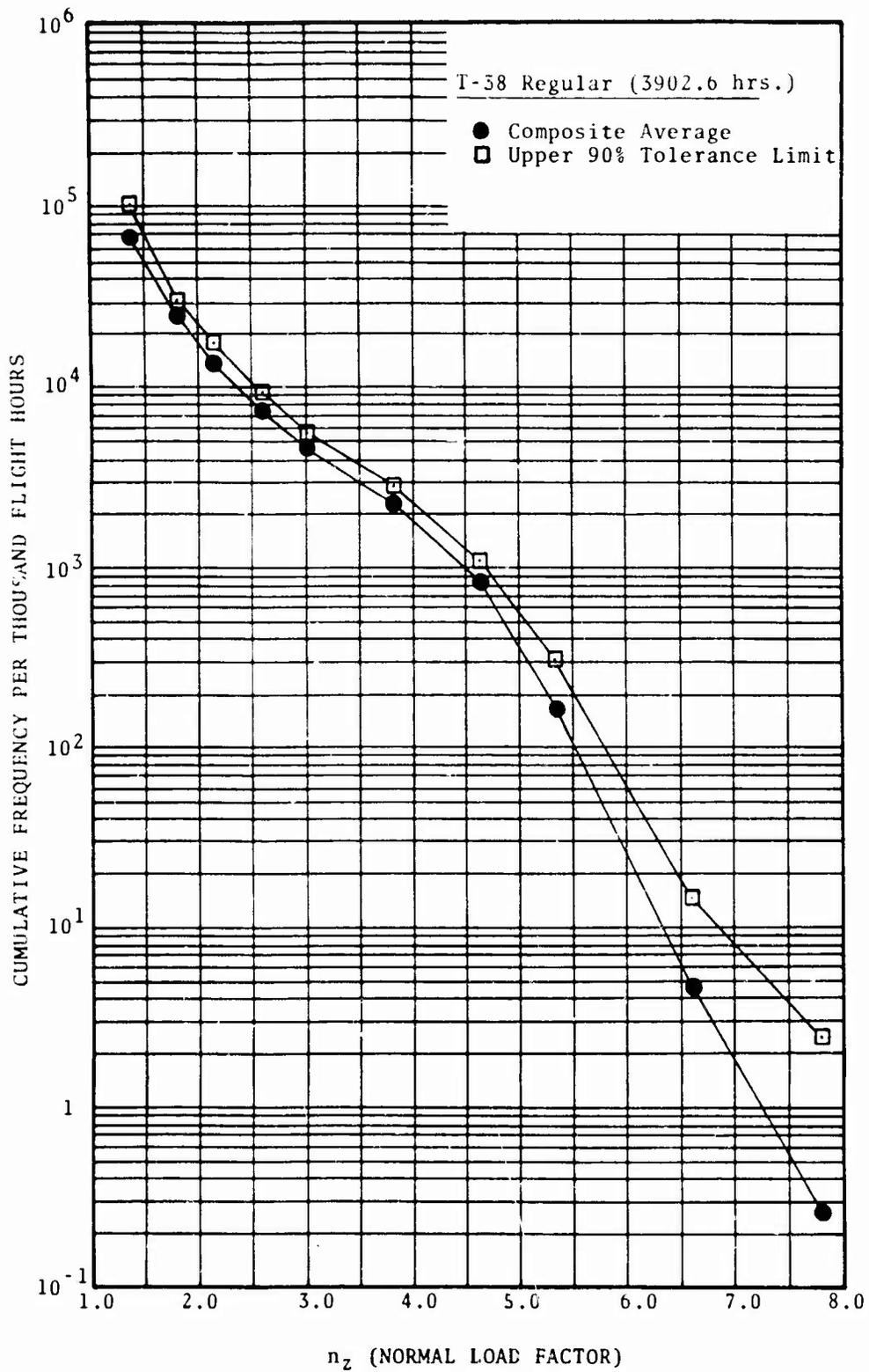
AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
LESS																	0.0
100				2	4	243	66										0.9
150				4	25	410	1665	232	10	1	1						28.3
200				2	33	1027	1797	550	376	85	53	1					63.2
250		2	3	9	90	3108	4954	1640	1034	362	189	38	9				162.0
300		2	2	6	61	1261	2797	740	463	228	245	131	99	2			88.5
350		2		4	21	207	328	130	99	105	177	115	58	15			15.1
400				2	8	68	78	38	33	27	83	102	68	21	1		3.0
450					4	42	21	18	18	19	35	24	17	7	2		1.3
500						4	4	1	1	3	8	5	3				0.2
550												1					
625																	
700																	
TOTAL		6	5	29	246	6370	11710	3349	2034	830	791	417	254	45	3		362.2

T-38 LTF: n_z Peak Frequencies
(362.2 Hrs.)



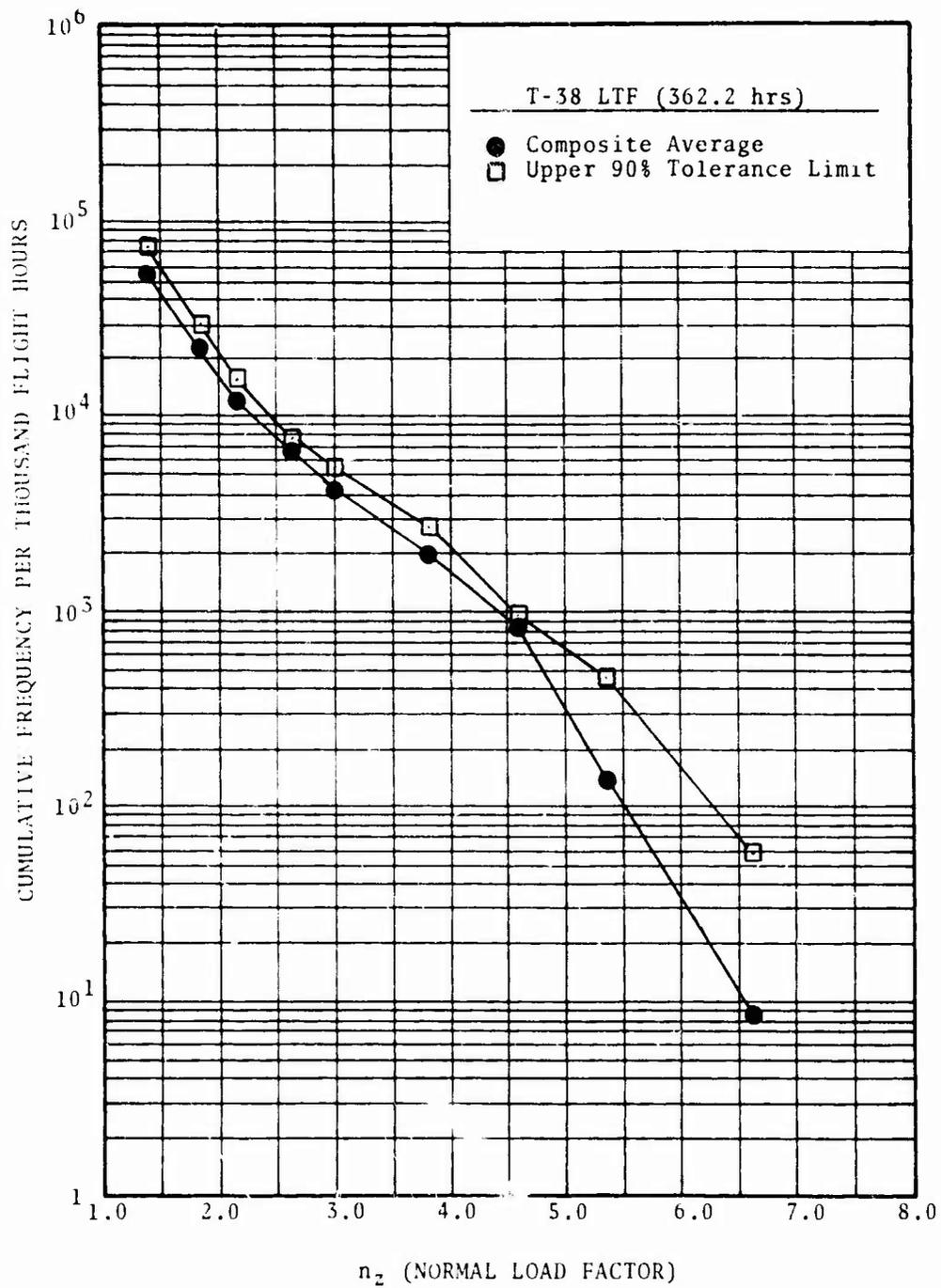
b. T-38 LTF

Figure 4. (Concluded)



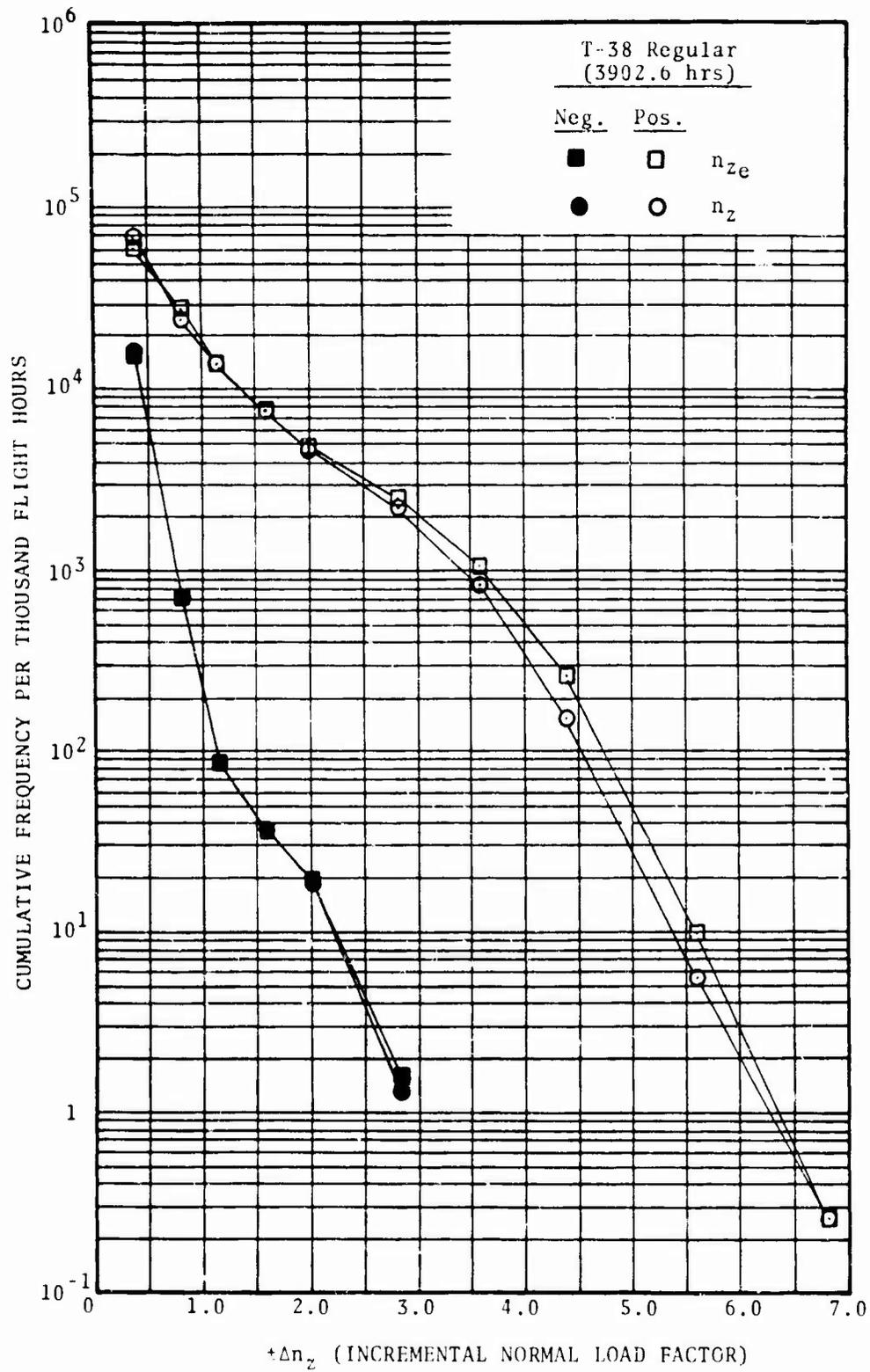
a. T-38 Regular

Figure 5. Mean n_z Exceedance Curve and 90% Tolerance Limit



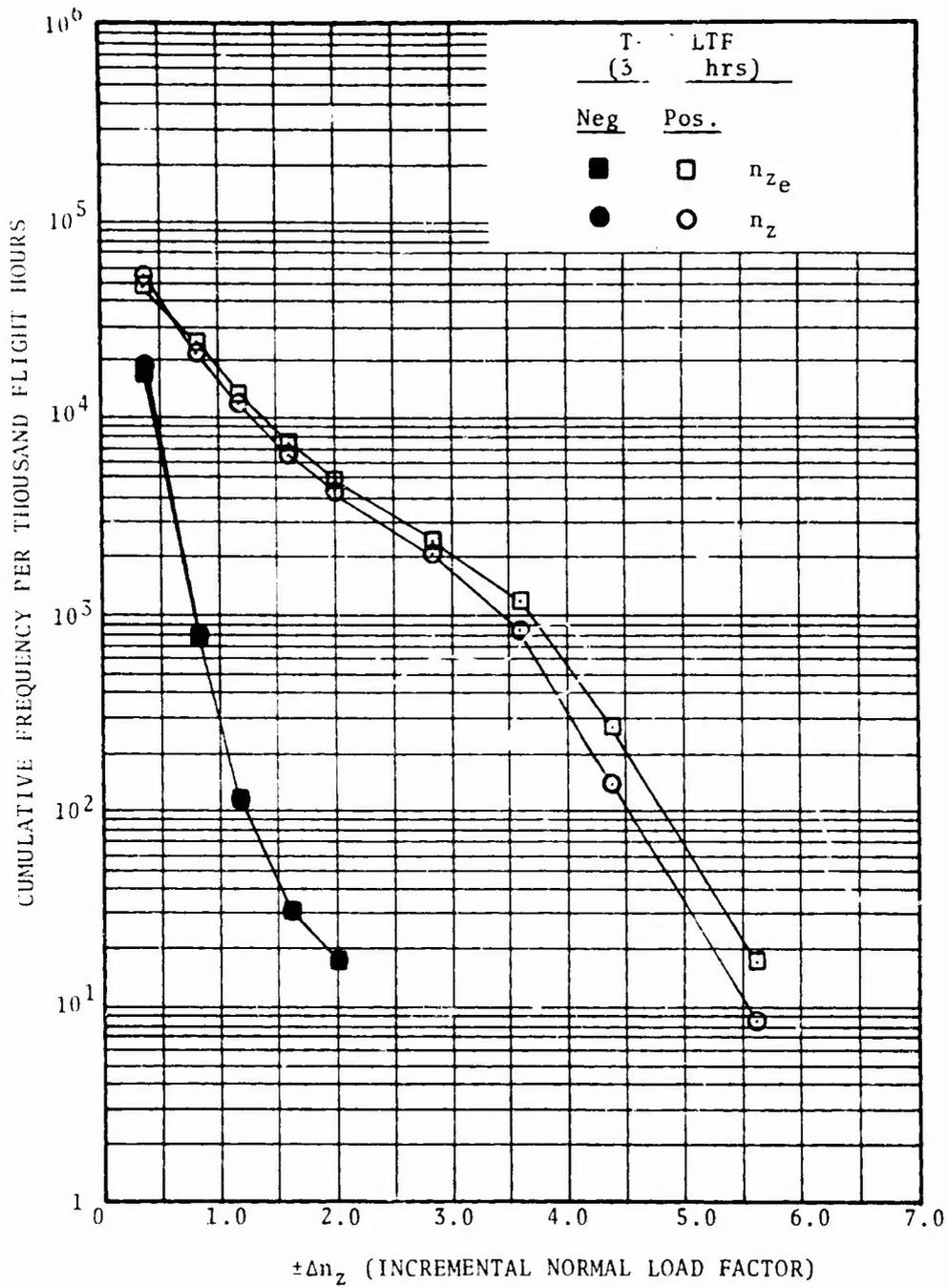
b. T-38 LTF

Figure 5. (Concluded)



a. T-38 Regular

Figure 6. Composite n_z and n_{ze} Exceedance Curves



b. T-38 LTF

Figure 6. (Concluded)

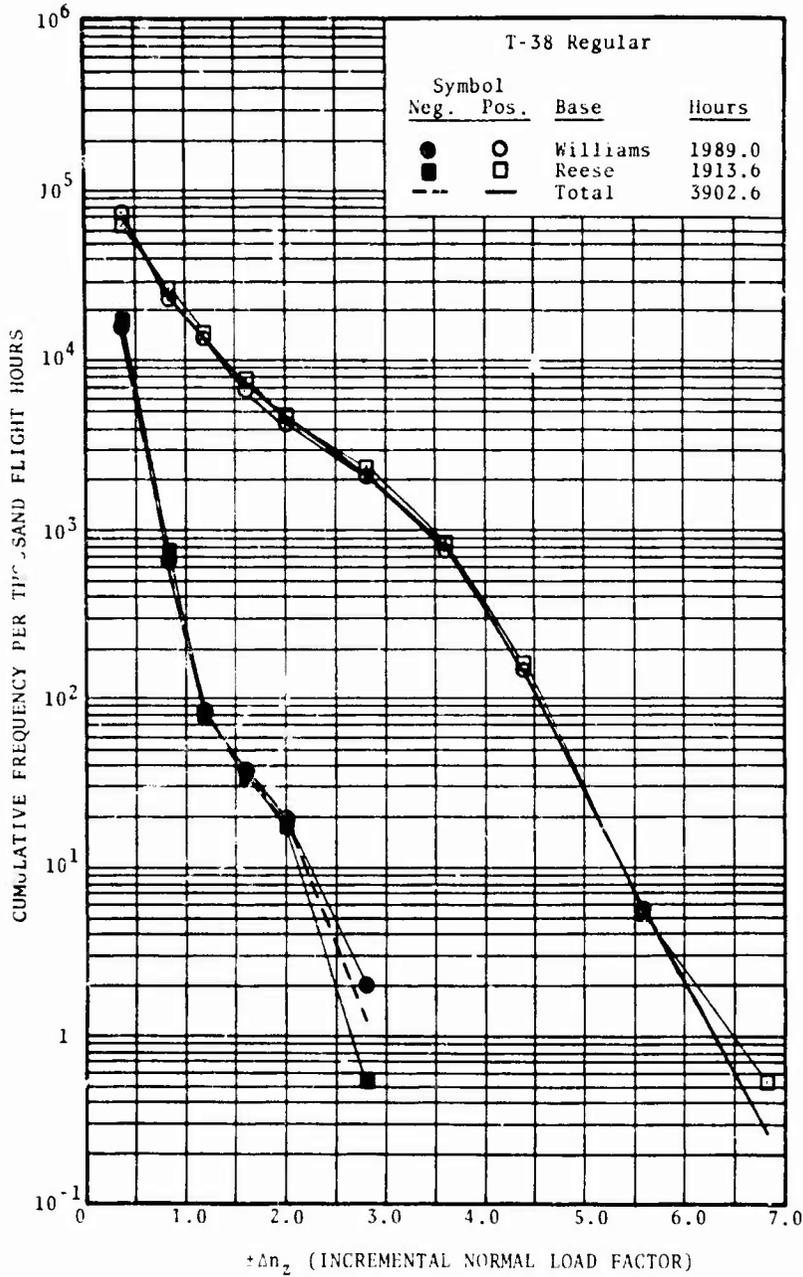
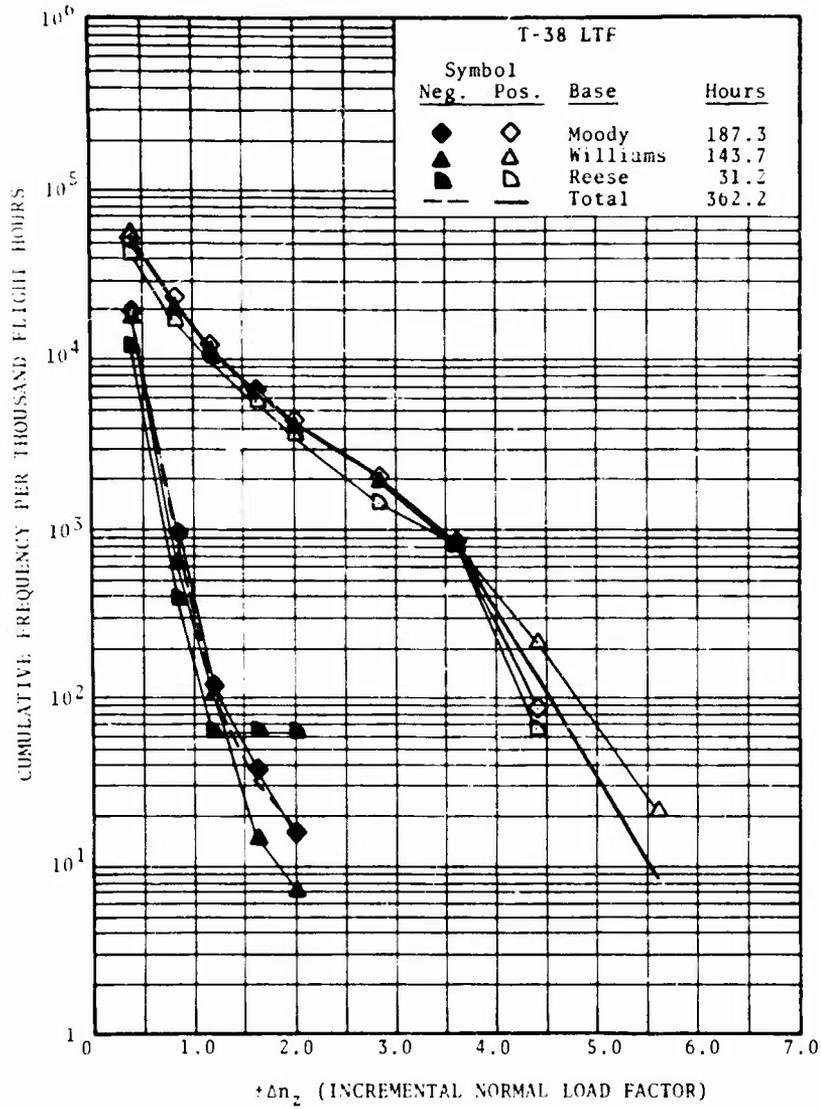


Figure 7. Exceedance Curves of Positive and Negative n_z Peaks for Each Base

TABLE III Frequencies of n_z Peaks in n_z Intervals versus Base

a. T-38 Regular

BASE	LFSS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
WILLIAMS	4	35	38	92	1137	29922	99140	19559	12608	5116	4320	2528	1261	280	11		1989.0
REESE	1	33	28	95	1293	32784	71813	20945	13040	5905	4543	2894	1331	266	9	1	1913.6
TOTAL	5	68	66	187	2430	62706	170953	40504	25648	11021	8863	5422	2592	576	20	1	3902.6



b. T-38 LTF

Figure 7. (Concluded)

TABLE III (Concluded)

b. T-38 LTF

BASE	LESS	-1.0	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ										TIME
MOODY	3	4	16	160	3517	5979	1042	1101	426	427	231	144	16	6.6	7.8	187.3			
WILLIAMS	1	1	13	76	2465	5260	1221	709	337	294	167	87	27	3		143.7			
REESE	2			10	388	841	186	134	67	70	19	23	2			31.2			
TOTAL	6	5	29	246	6370	11710	3349	2034	830	791	417	254	45	3		362.2			

APPENDIX B
MISSION TYPE DATA

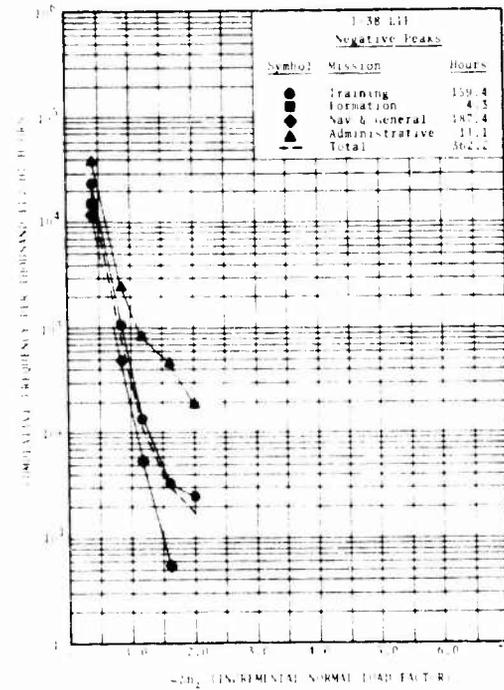
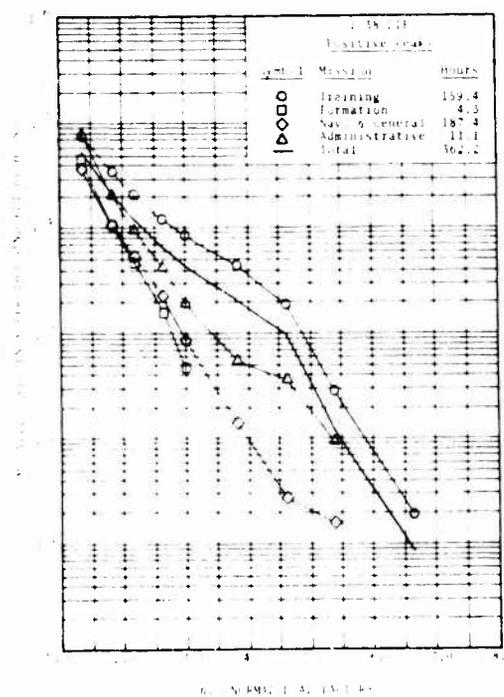
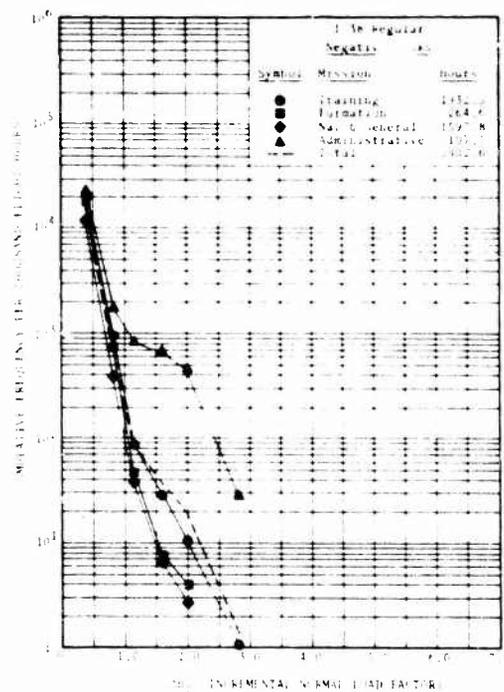
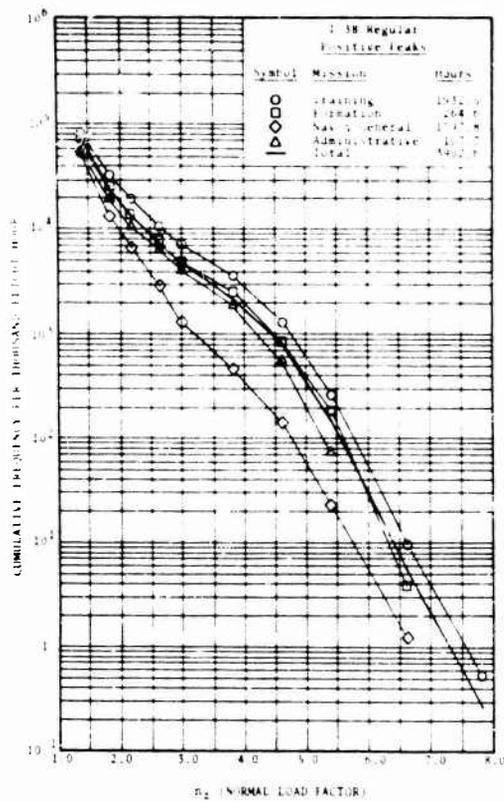


Figure 8. Exceedance Curves of Positive and Negative n_z Peaks for Each Mission Type

TABLE IV Frequencies of n_z Peaks in n_{ze} Intervals versus Tail Number by Mission Type

a. T-38 Regular

Mission 1 - Training

MISSION	1														TOTAL	TOTAL	TIME		
A/C TAIL NO	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	NZE		2.6	3.0	3.8	4.6	5.4	6.6	7.8	TOTAL	HOURS	
3180					76	1225	2860	1388	818	431	408	242	148	51	4	7.8	7694	100.1	
3262					4	42	693	2075	1191	579	261	245	153	111	35	4	5394	72.2	
3263					1	3	79	1302	3118	1621	853	354	366	246	151	65	2	8163	100.4
3266					2	2	44	676	7680	1615	866	231	252	162	102	38		11090	64.1
3278		1			4	4	86	1671	4005	1992	949	451	438	301	198	63	4	10147	121.9
3279					3	8	58	1772	3764	1833	830	351	307	189	111	26	1	9243	100.7
3290					1	3	31	1012	2178	1145	610	261	212	131	80	30	2	5446	59.5
3301		1			4	77	1311	2888	1234	684	305	325	203	134	48			7215	84.8
3644			2		6	133	3548	4201	1953	1005	491	455	249	117	49	2	12711	124.0	
3645					2	58	902	1187	645	377	177	185	165	92	18			3808	46.3
3646				5	12	88	1319	3476	1890	997	464	404	265	134	46	3	9103	116.2	
3650			2		4	70	1889	2140	1017	559	249	239	150	88	24	1	6452	70.1	
3651			1	2	11	94	2049	3922	2739	1121	487	418	271	147	56		10878	132.5	
3652					2	31	639	1117	563	251	116	105	81	49	18		2967	35.4	
3653				1	9	109	1900	3953	2151	1163	506	467	351	170	46		10831	140.4	
3654					11	86	1853	3158	1720	950	383	305	206	118	31		8871	92.0	
3655			2	5	5	156	3345	5216	2450	1639	742	624	441	240	63	2	15431	209.3	
3656						18	179	248	117	41	20	30	11	3	3		670	6.2	
3657			3	2	6	81	1351	2640	1465	806	392	376	238	110	41		7531	88.5	
8184		2	4	3	9	134	2735	5093	1977	878	401	414	239	151	52	3	12095	107.8	
8161			1	2	1	44	860	1855	889	592	208	183	95	59	15		4804	46.0	
8219					1	14	596	659	313	167	59	35	33	12	2		1894	13.6	
TOTAL	2	14	32	114	1609	32830	67428	31710	16440	7340	6793	4422	2525	820	24	1172108	1932.5		

Mission 2 - Formation

MISSION	2														TOTAL	TOTAL	TIME	
A/C TAIL NO	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	NZE		2.6	3.0	3.8	4.6	5.4	6.6	7.8	TOTAL	HOURS
3180					3	71	96	32	22	3	2	1	1				101	4.4
3262					6	160	437	159	75	23	20	10	6	6			907	11.1
3263					1	12	37	6	4	2							62	1.8
3266					5	84	556	117	35	26	20	16	10	1			845	7.8
3278					9	276	695	344	126	64	61	25	10	8			1618	25.2
3279			1		18	461	794	308	133	54	46	28	9				1855	17.3
3290					1	68	119	47	20	7	7	7					276	4.0
3301					18	388	907	514	262	102	94	34	23	4			2346	38.0
3644					1	5	232	217	78	32	20	22	6	3	1		617	8.5
3646				1	22	318	842	402	228	99	84	53	31	4	1		2087	27.8
3650					2	11	244	297	178	103	59	47	19	11	3		977	10.5
3651					2	28	424	701	348	154	60	61	38	19	8		1833	17.0
3652						27	31	15	7	2	4	7	4	3			100	1.2
3653					7	165	391	261	90	31	37	25	11	5			1032	14.3
3654				1	14	416	768	333	145	67	66	47	24				1885	28.9
3655					1	22	414	677	331	160	77	95	74	28	2		1881	23.5
3657					10	242	564	290	101	42	45	17	10	4			1925	20.1
TOTAL	1	1	10	180	3962	8129	3758	1697	738	711	407	209	55	1		19849	264.6	

TABLE IV (Continued)

Mission 3 - Nav & General

MISSION															TOTAL	TIME		
3																HOURS		
A/C	TAIL NO	LESS	-1.0	-1.0	-0.6	-0.2	0.2	1.4	NZE					7.8	TOTAL	TIME		
								1.4	2.2	2.6	3.0	3.8	4.6	5.4	6.2	7.8	TOTAL	TIME
3180								1.4	2.2	2.6	3.0	3.8	4.6	5.4	6.2	7.8	7718	145.1
3262		1						1288	528	257	142	37	21	9			3644	58.0
3263		2	1	4				34	978	3239	1175	407	143	130	44	20	6175	124.1
3266								15	562	5623	1077	215	111	73	23	6	7706	52.2
3278					3			39	1325	3822	1433	547	240	163	64	32	7678	127.6
3279					5			50	1429	3282	1136	429	158	123	57	18	6601	107.0
3290			2					33	1161	2147	868	347	137	91	22	4	4820	89.4
3301			1					30	798	1994	842	365	138	84	31	11	4306	79.1
3644		1	1					48	1335	2084	931	348	140	82	30	11	5012	87.3
3645					1			13	496	1139	439	194	75	47	30	5	2449	46.3
3646					2			14	477	1411	466	202	75	35	7	4	2693	68.3
3650					3			19	593	906	439	161	46	11	1		2179	46.8
3651					4			16	659	1666	642	190	83	57	23	12	3355	59.5
3652								13	517	932	373	162	59	10	1		2047	31.1
3653					4			30	959	2195	886	326	110	60	14	2	4586	95.8
3654					4			25	624	1348	551	203	98	66	30	10	2962	59.4
3655			1					29	842	2047	747	282	125	49	10	6	4138	94.9
3657								27	826	1867	765	293	86	29	5	1	3809	69.5
8184					2			35	1128	2510	963	397	179	109	32	14	5369	89.2
8191					2			13	525	1560	555	193	93	36	9	5	3021	54.6
8219					1			7	287	445	183	83	36	44	23	9	1149	15.2
TOTAL		4	6	49	553	17392	45977	16612	6233	2536	1546	519	196	41	3		61617	1597.8

Mission 4 - Administrative

MISSION															TOTAL	TIME			
4																HOURS			
A/C	TAIL NO	LESS	-1.0	-1.0	-0.6	-0.2	0.2	1.4	NZE					7.8	TOTAL	TIME			
								1.4	2.2	2.6	3.0	3.8	4.6	5.4	6.2	7.8	TOTAL	TIME	
3180								1.4	2.2	2.6	3.0	3.8	4.6	5.4	6.2	7.8	516	13.3	
3262		2			1			13	120	188	88	31	18	25	20		117	1.1	
3263					1			2	23	50	15	11	7	4	3		467	8.2	
3266		6						4	110	149	100	52	12	14	12	5	2	314	2.3
3278		5	1		1			10	66	112	56	23	13	16	7	3	824	8.9	
3279		1	2	3	3			8	208	360	142	46	20	21	9	1	477	7.0	
3290		4	1		2			7	153	155	71	34	12	22	12	4	244	4.3	
3301		1	2	2				2	40	75	41	18	18	35	27	4	589	8.4	
3644			5		1			6	111	241	119	42	19	22	15	7	530	6.1	
3645		1	4					3	202	202	63	31	15	3	5	1	468	3.9	
3646		4						12	164	163	61	24	9	16	7	8	897	6.9	
3650		2	1		1			69	170	75	40	11	17	8	3		171	1.4	
3651		1	1					3	62	60	19	10	7	3	4	1	823	7.7	
3653								2	77	175	43	10	5	6	3	1	185	2.1	
3654								31	97	26	16	7	2	3	3		631	9.7	
3655		4	2		1			6	129	276	108	44	23	10	3	2	687	9.3	
3656		7						7	165	234	99	47	27	26	14	8	145	0.9	
3657			1					1	54	73	24	10		2			109	1.1	
8184		2						20	43	21	6	7	2	2	2		520	5.3	
8219		3	1		3			4	111	227	99	42	13	8	5	3	96	0.6	
TOTAL		3	45	26	15	93	1939	3068	1278	437	244	265	168	65	10		7746	107.7	

TABLE IV (Concluded)

b. T-38 LTF

Mission 1 - Training

MISSION															TOTAL	TIME			
A/C TAIL NO	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZE	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TOTAL	HOURS
881				6	44	1249	1941	854	400	194	237	153	89	32				5199	55.4
897					4	99	201	76	48	23	29	4	11	1				496	7.9
945		1			5	102	151	108	75	35	34	13	24	2				550	8.8
8420		3	1	10	90	1605	2276	1497	865	375	392	233	175	48				7771	87.1
TOTAL	4	1	16	143	3255	4569	2535	1388	627	687	403	299	83	6			14016	159.4	

Mission 2 - Formation

MISSION															TOTAL	TIME			
A/C TAIL NO	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZE	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TOTAL	HOURS
881						55	129	38	16	6	3	3.8	4.6	5.4	6.6			248	4.3
TOTAL						56	129	38	16	6	3							248	4.3

Mission 3 - Nav & General

MISSION															TOTAL	TIME			
A/C TAIL NO	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZE	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TOTAL	HOURS
881				3	21	564	1365	399	189	65	36	8	2	2				4654	62.4
897				1	15	54	7	2										79	8.2
945				4	207	366	85	43	31	30	3							768	18.7
8158		1	6	56	1208	1898	847	350	168	98	12							4644	98.1
TOTAL	1	9	82	1994	3681	1338	584	264	164	23	2	3					8145	187.4	

Mission 4 - Administrative

MISSION															TOTAL	TIME			
A/C TAIL NO	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZE	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TOTAL	HOURS
881		1	1	4	6	256	316	83	39	12	9	1	1					730	5.4
945		1			1	46	73	38	22	7	6	2	1					199	3.6
8158			2		11	53	71	30	5	1	5							178	2.1
TOTAL	2	3	4	18	355	460	151	66	20	20	3	2	3				1107	11.1	

APPENDIX C
MISSION SEGMENT DATA

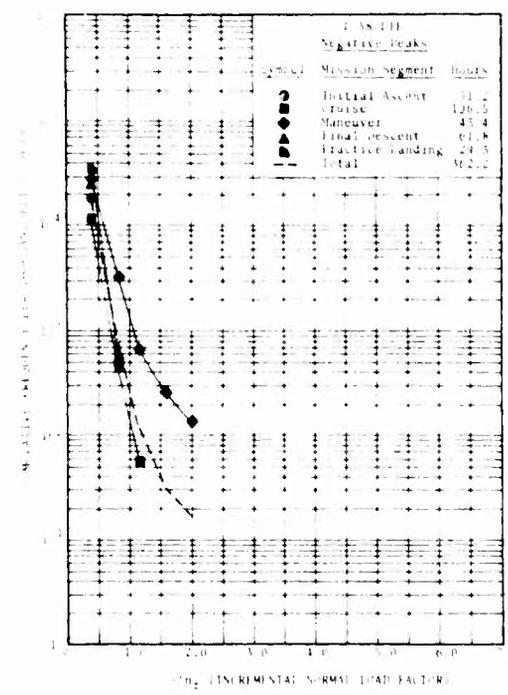
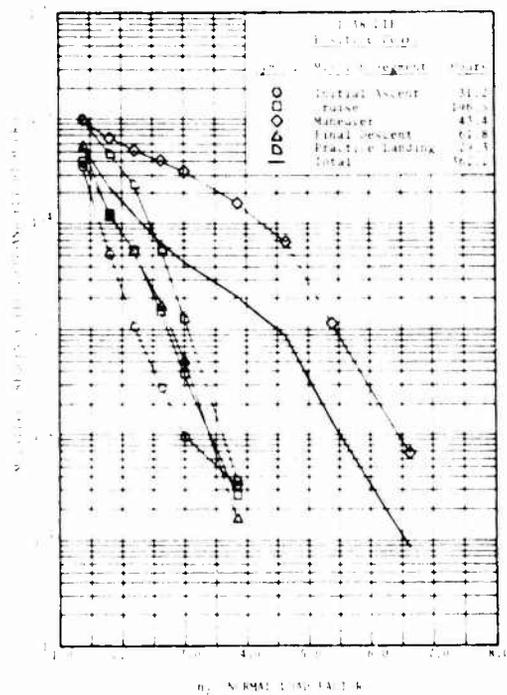
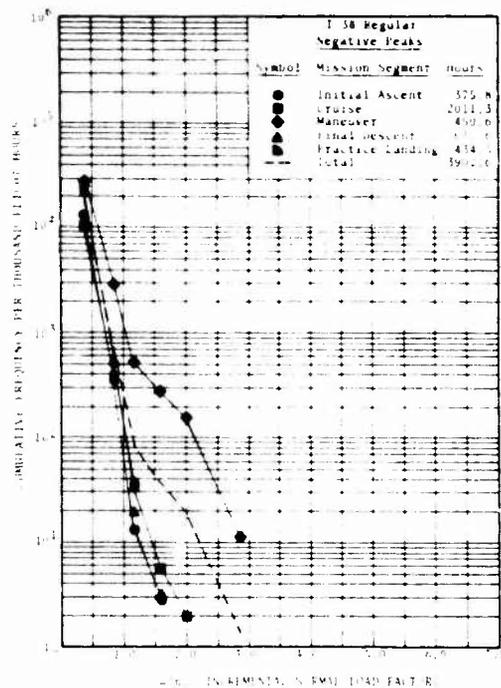
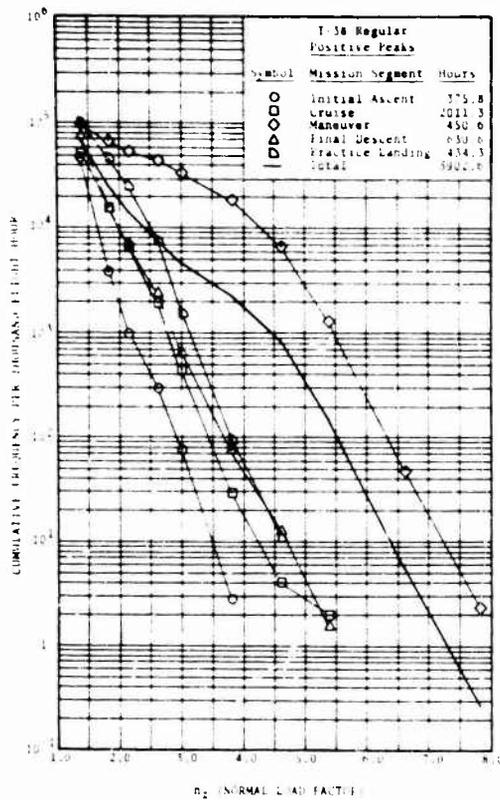


Figure 9. Exceedance Curves of Positive and Negative n_z Peaks for Each Mission Segment

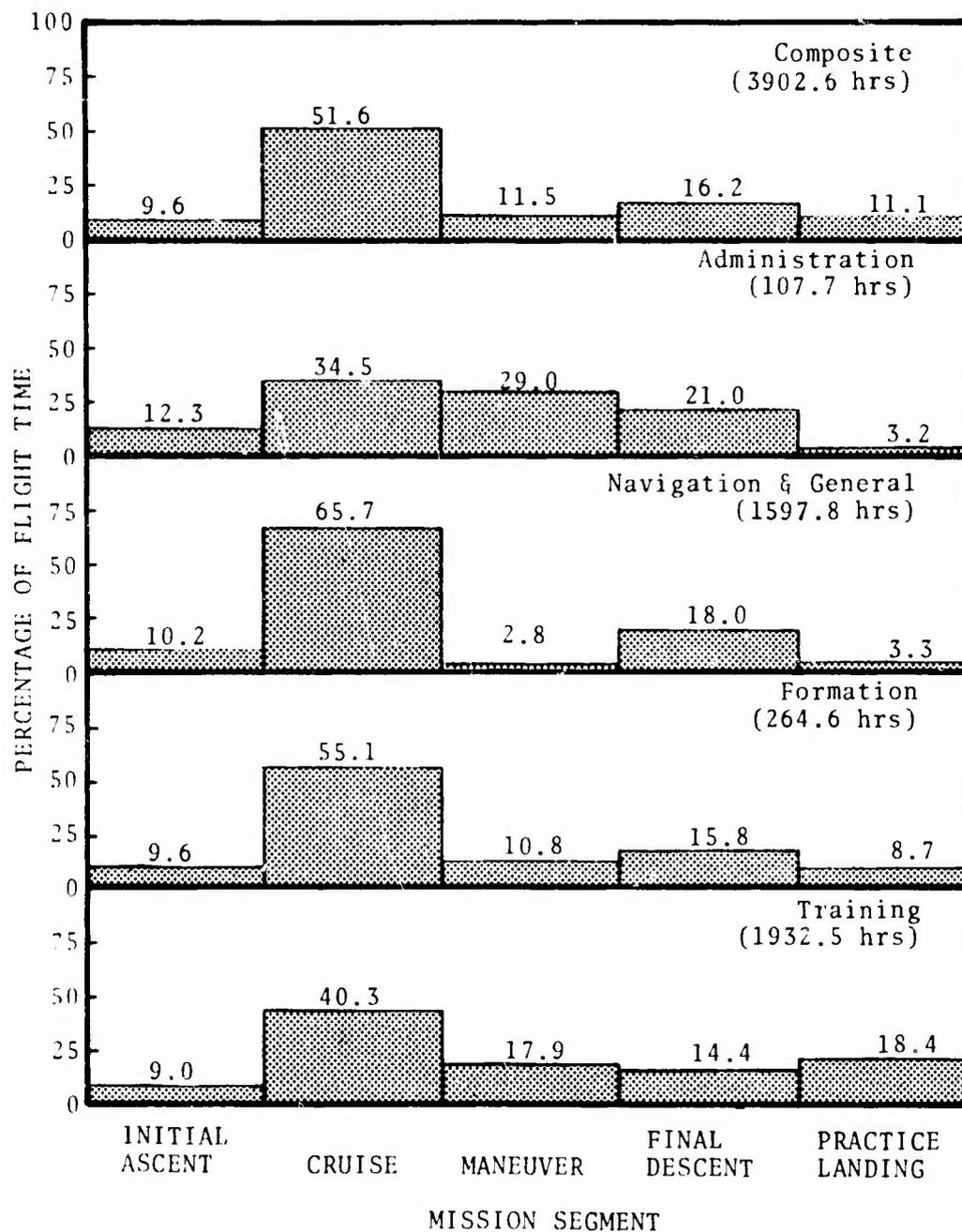
TABLE V Frequencies of n_z Peaks in n_z Intervals versus Mission Segment

a. T-38 Regular

MISS. SEG.	n_z														TIME HOURS		
	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4		6.6	7.8
INITIAL ASCENT			1	4	124	4803	16478	1086	256	80	27	1					375.8
CRUISE		4	7	53	688	20887	74697	17789	9860	3057	823	90	4	4			2011.3
MANEUVER	5	64	56	104	1090	11178	14156	6910	4741	4121	6986	5297	2576	571	20	1	450.6
FINAL DESCENT			2	10	313	16439	39808	5332	2815	1150	353	39	7	1			630.6
PRACTICE LOG				16	215	9399	25884	9387	7976	2613	674	35	5				434.3
TOTAL	5	68	66	187	2430	62706	170953	40504	25648	11021	8863	5422	2592	576	20	1	3907.6

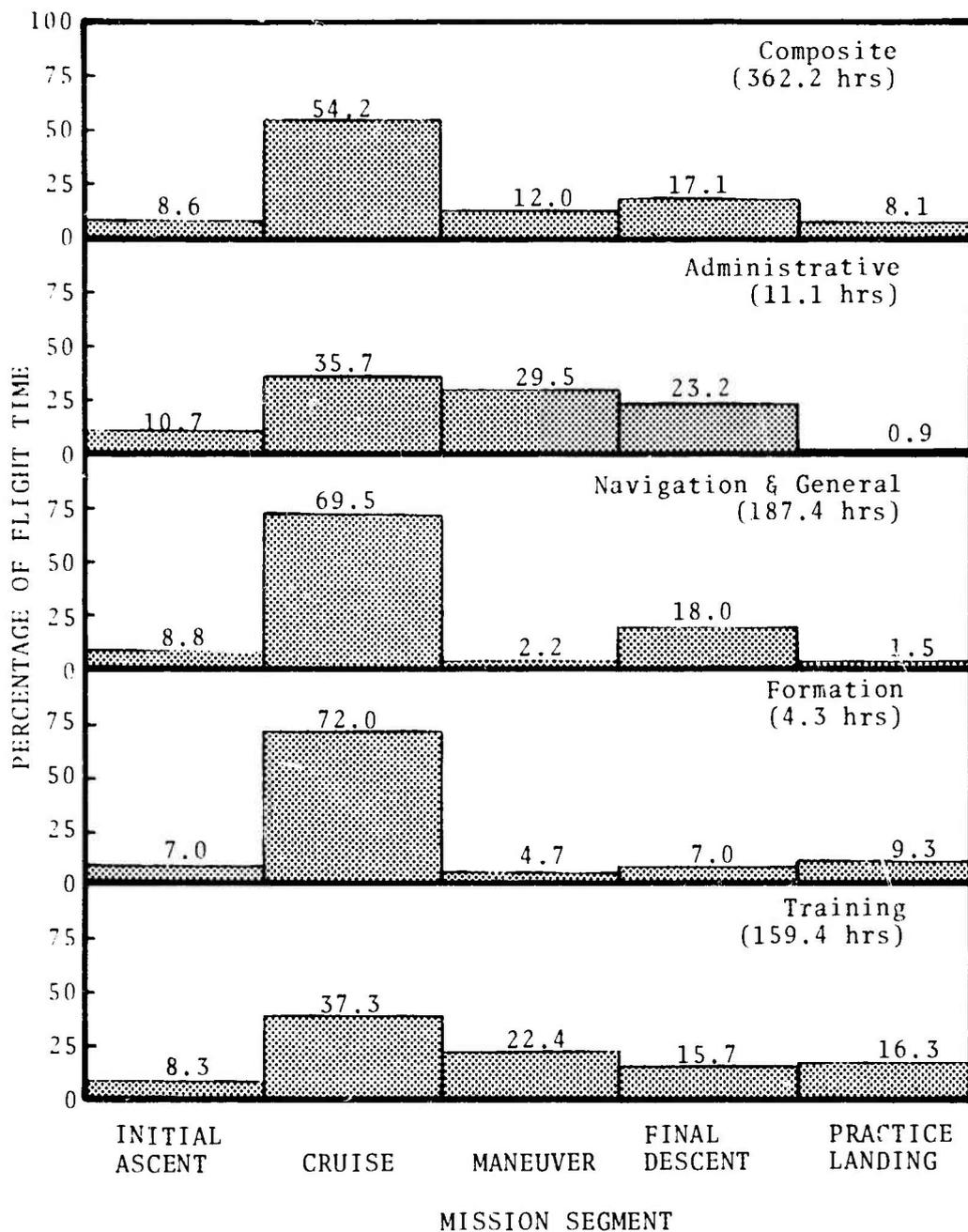
b. T-38 LTF

MISS. SEG.	n_z														TIME HOURS		
	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4		6.6	7.8
INITIAL ASCENT					16	540	912	124	23	6	2	1					31.2
CRUISE				11	76	2238	5240	1343	407	222	70	5					196.5
MANEUVER		6	5	18	106	1107	1400	709	437	408	651	409	254	45	3		43.4
FINAL DESCENT					31	1485	2752	444	239	67	30	1					61.8
PRACTICE LOG					17	1000	1406	729	528	127	36	1					29.3
TOTAL		6	5	29	246	6376	11710	3349	2034	830	791	417	254	45	3		362.2



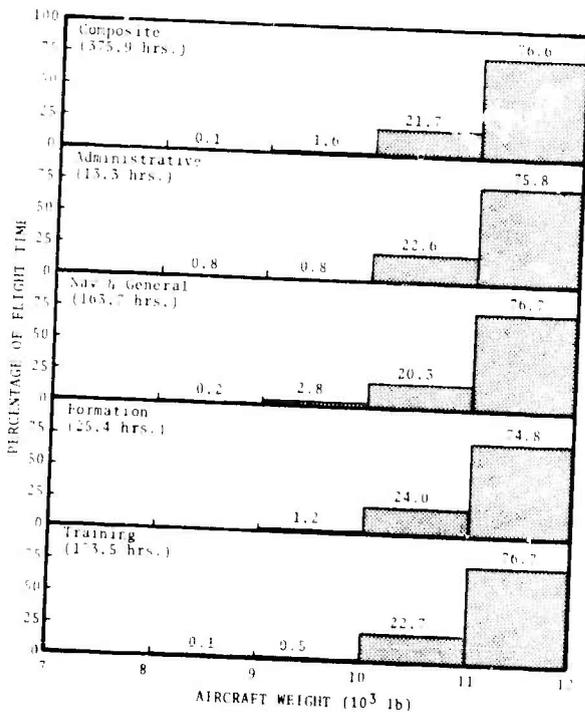
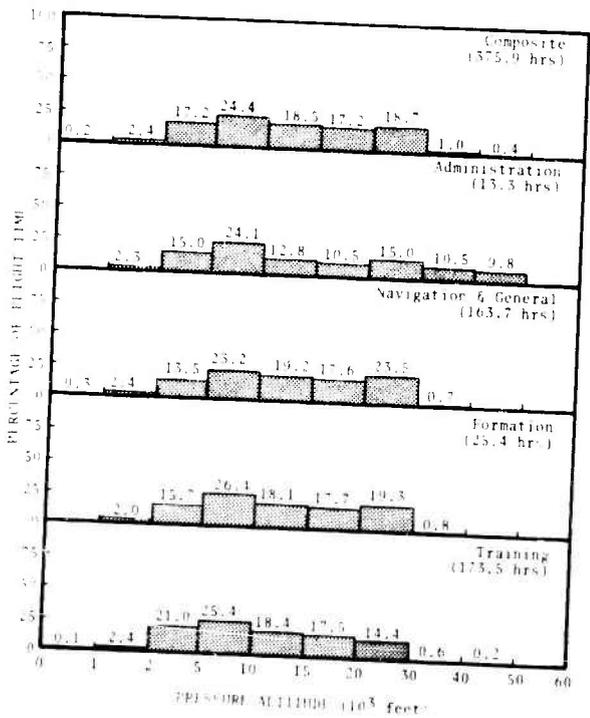
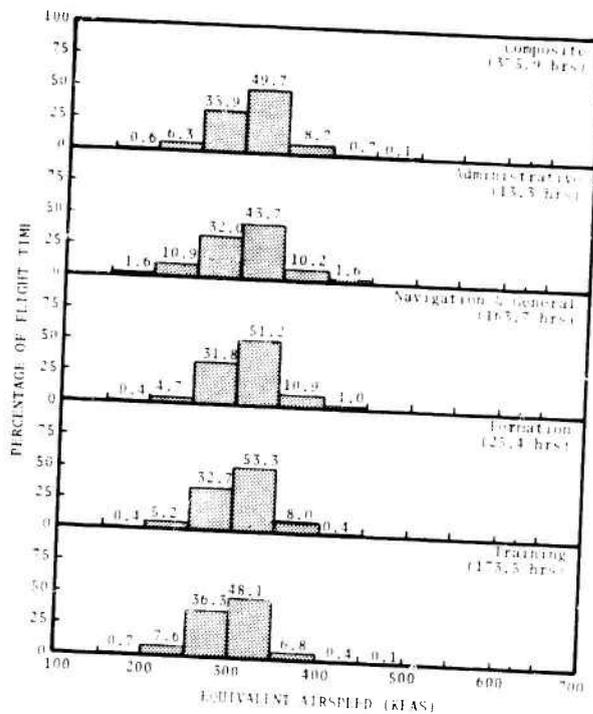
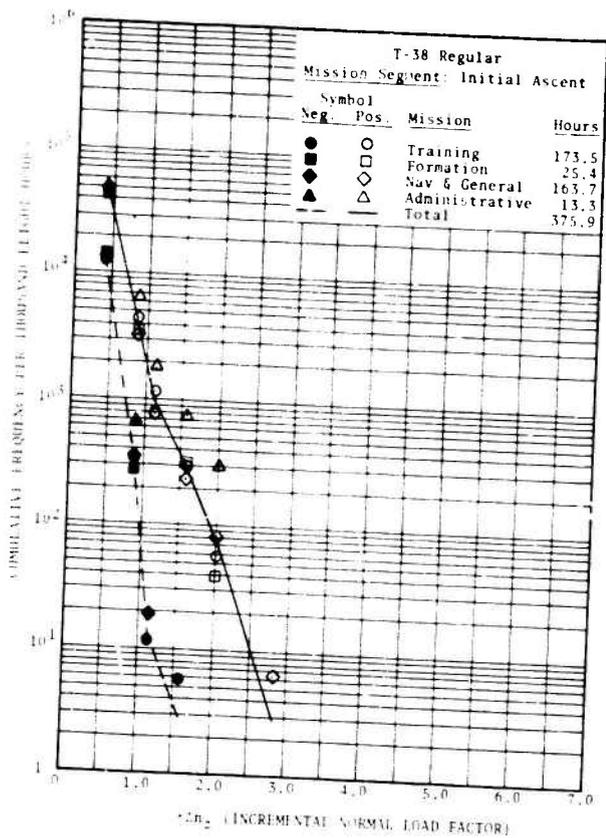
a. T-38 Regular

Figure 10. Percentage of Total Time Spent in Each Mission Type in Each Mission Segment



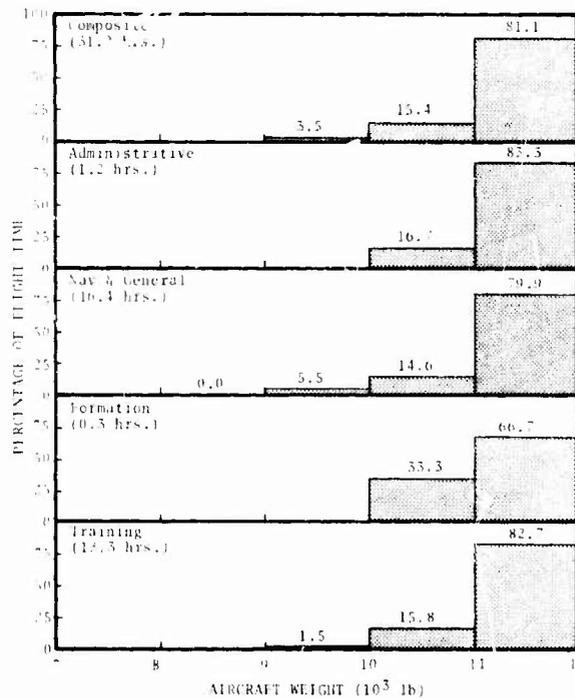
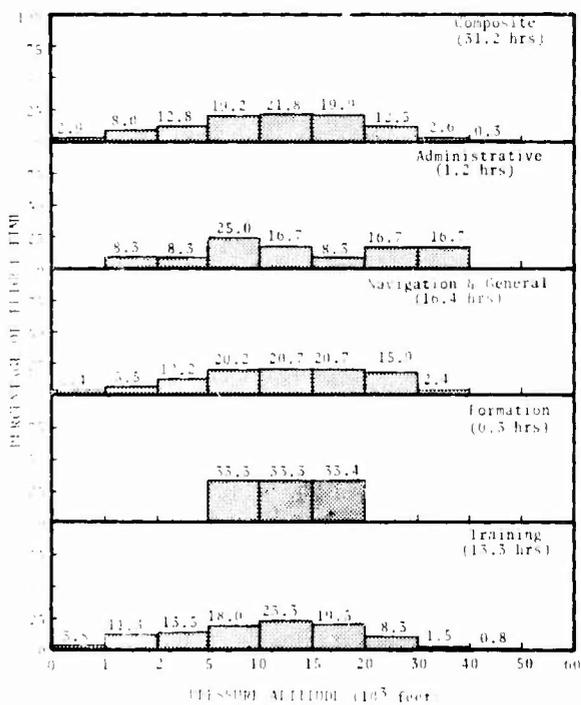
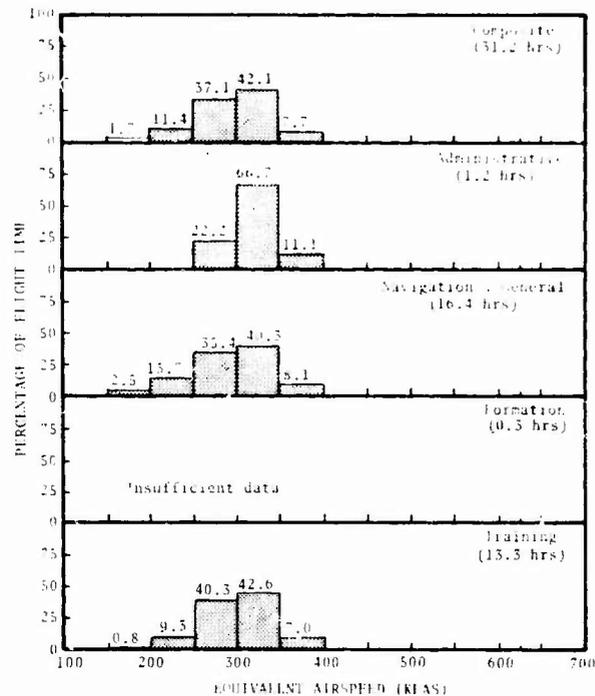
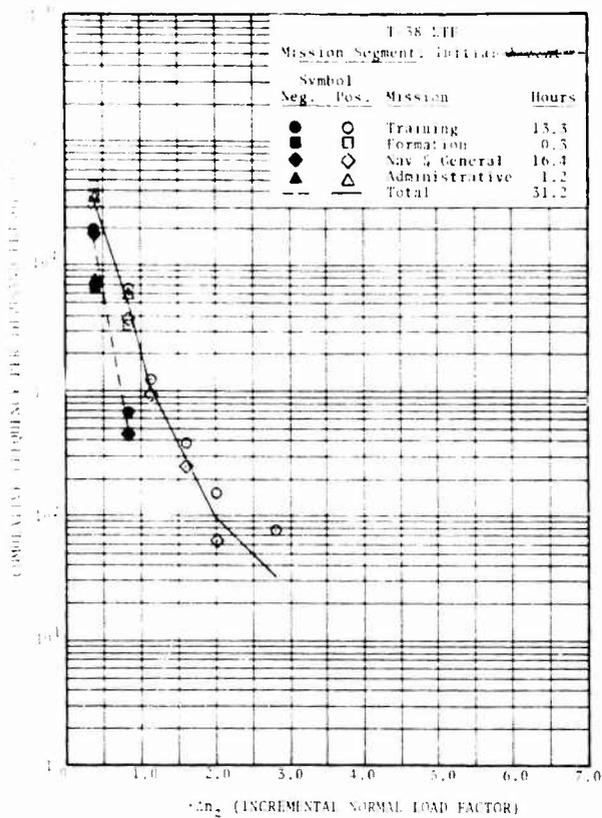
b. T-38 LTF

Figure 10. (Concluded)



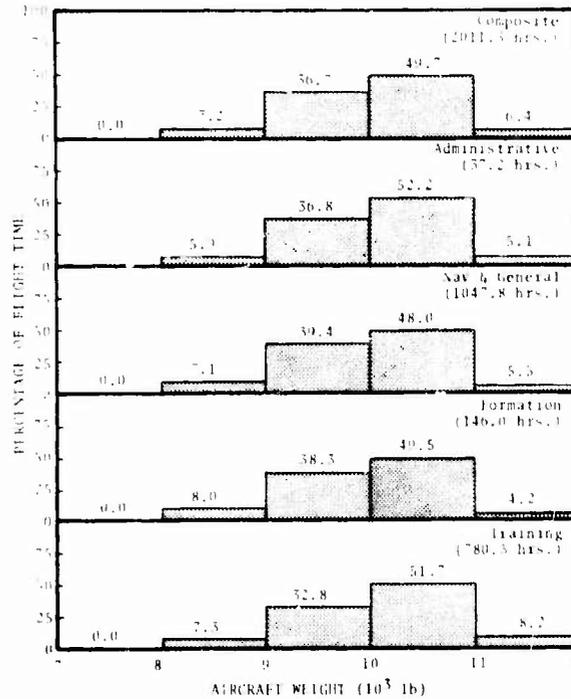
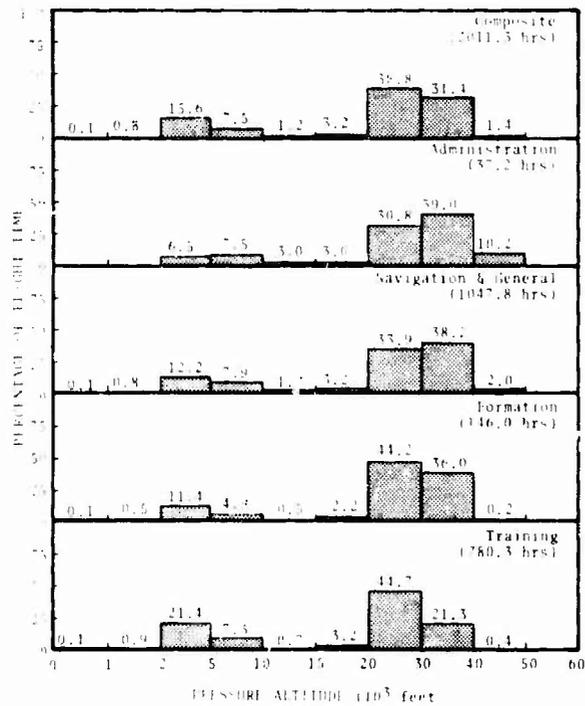
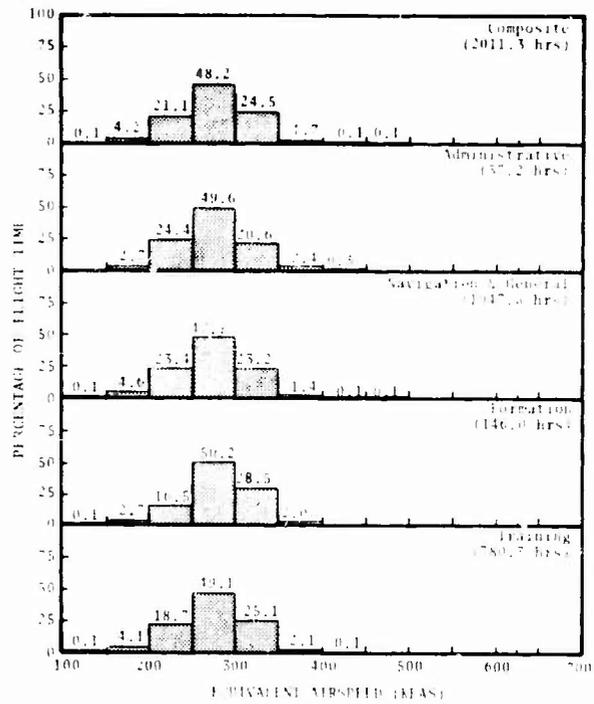
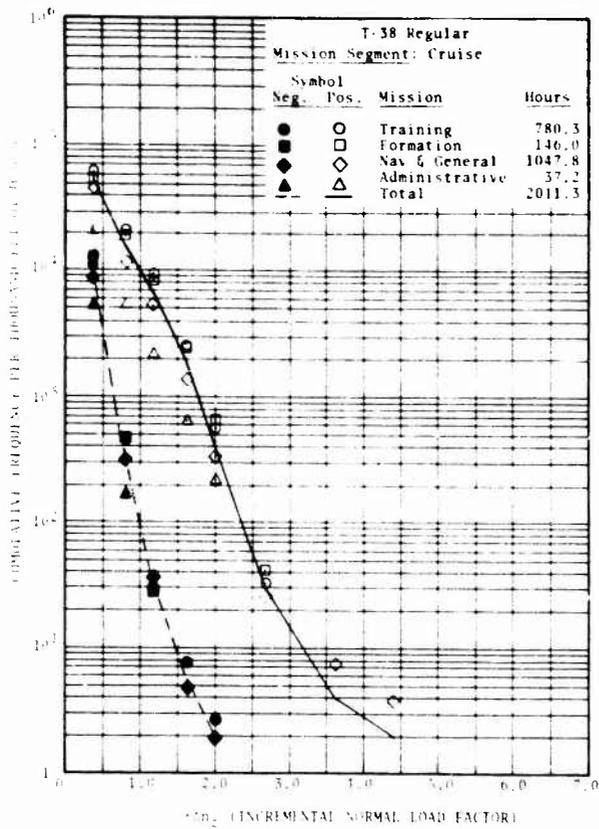
a. T-38 Regular

Figure 11. Initial Ascent Mission Segment: n_z Exceedance Curves and Time Histograms of Equivalent Airspeed, Altitude, and Weight by Mission Type



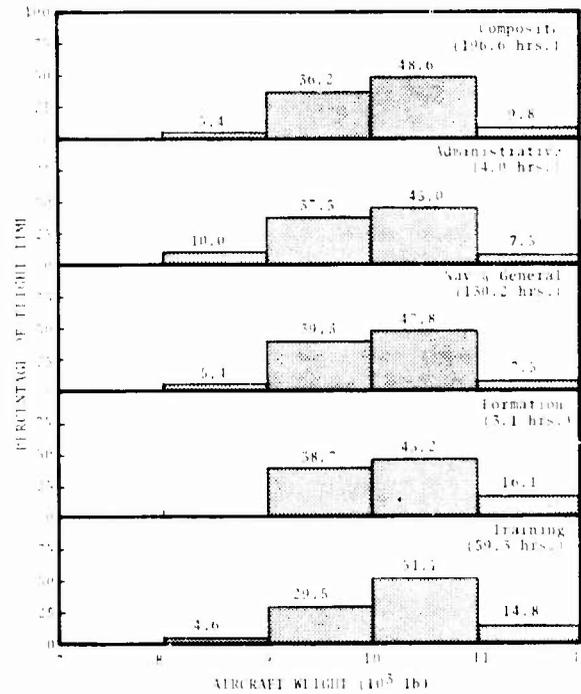
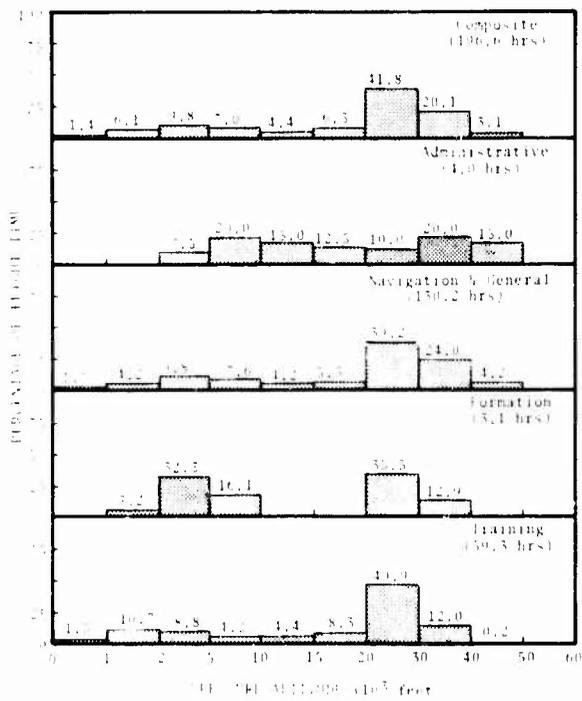
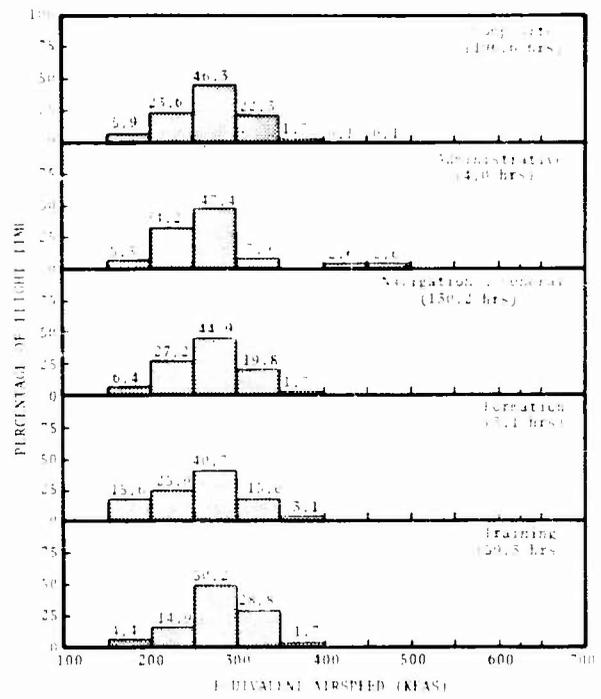
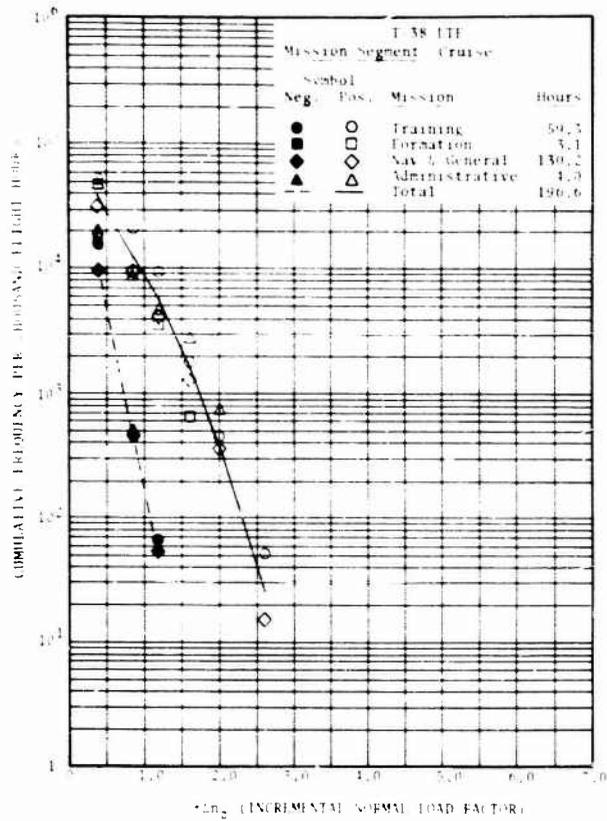
b. T-38 LTF

Figure 11. (Concluded)



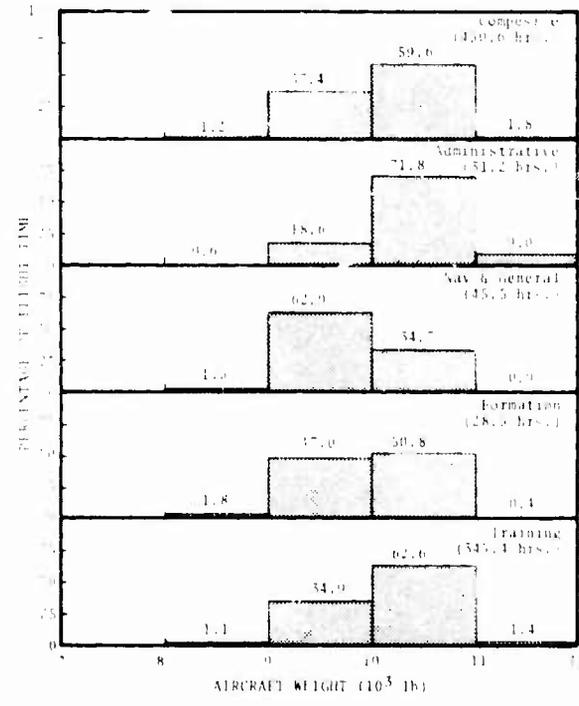
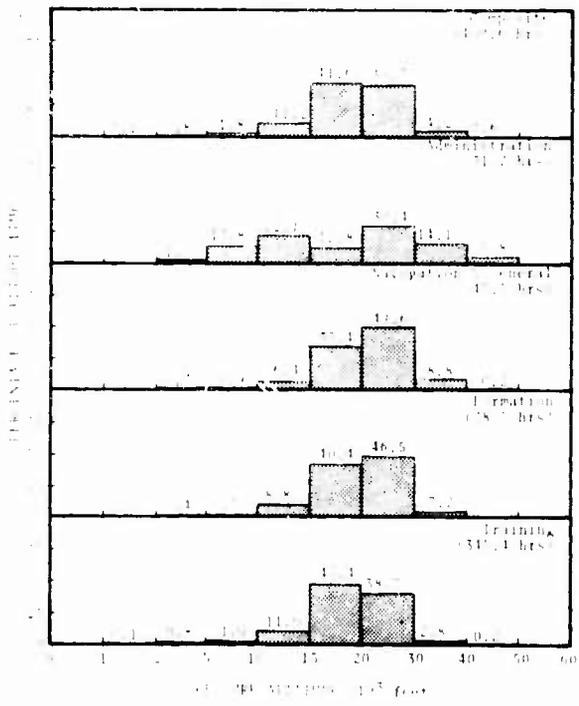
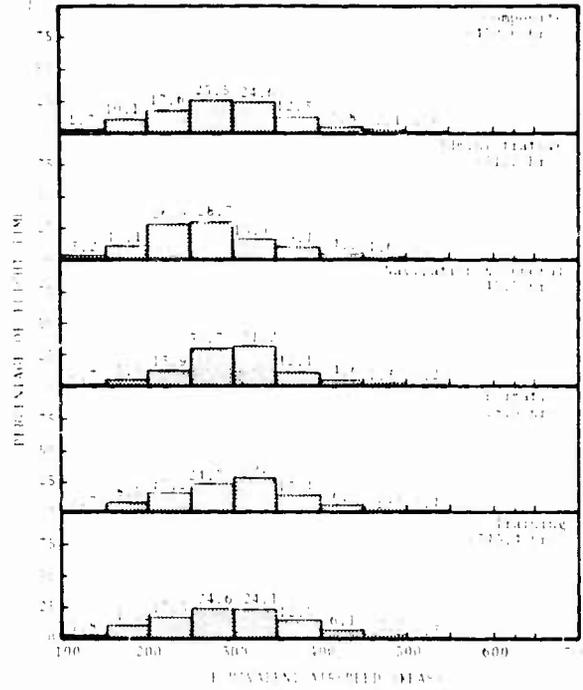
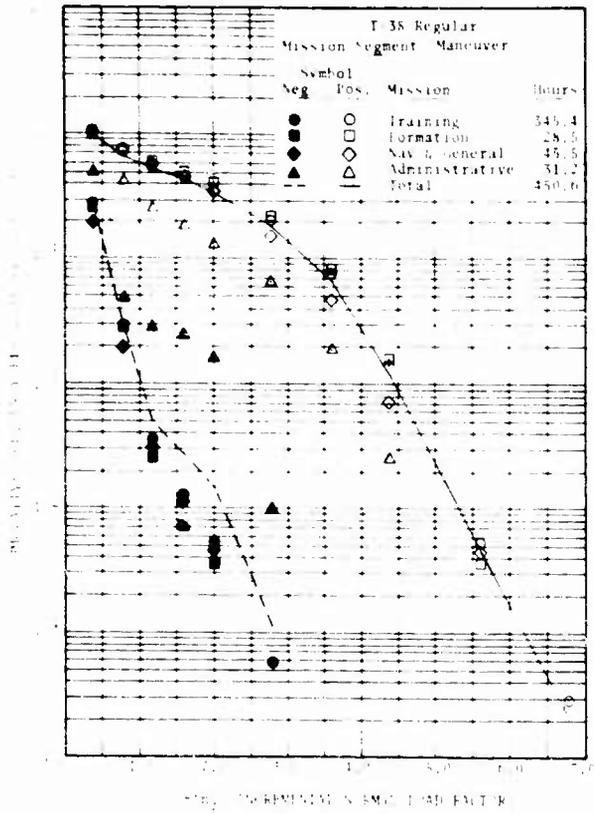
a. T-38 Regular

Figure 12. Cruise Mission Segment: n_z Exceedance Curves and Time Histograms of Equivalent Airspeed, Altitude, and Weight by Mission Type



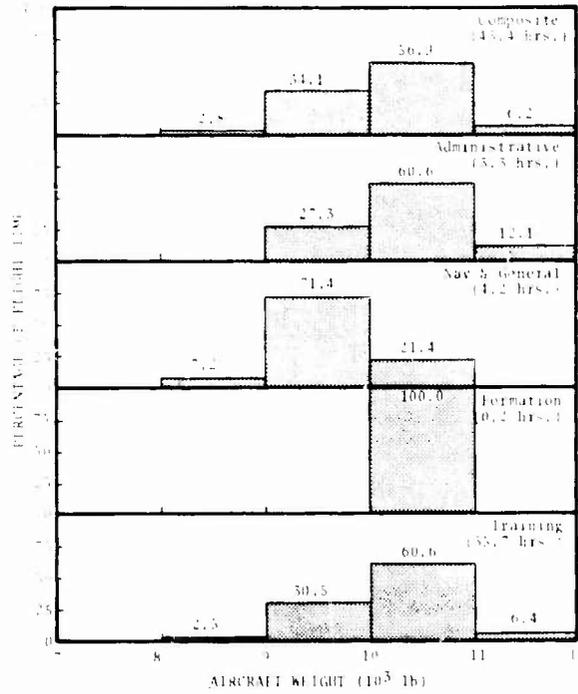
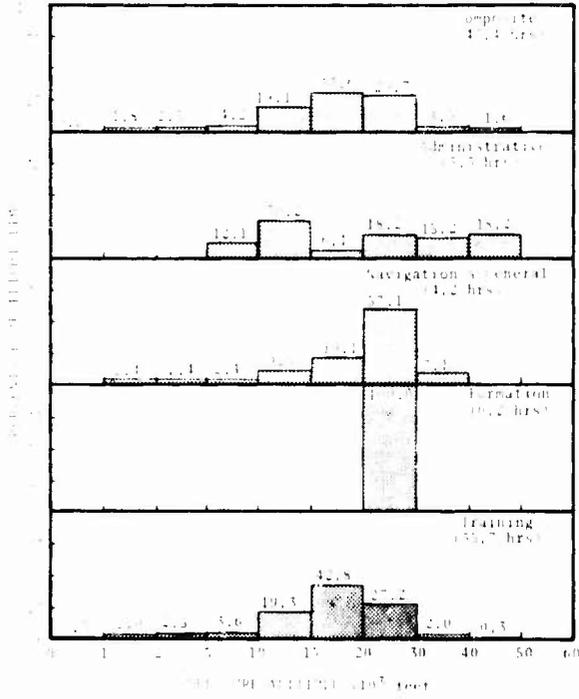
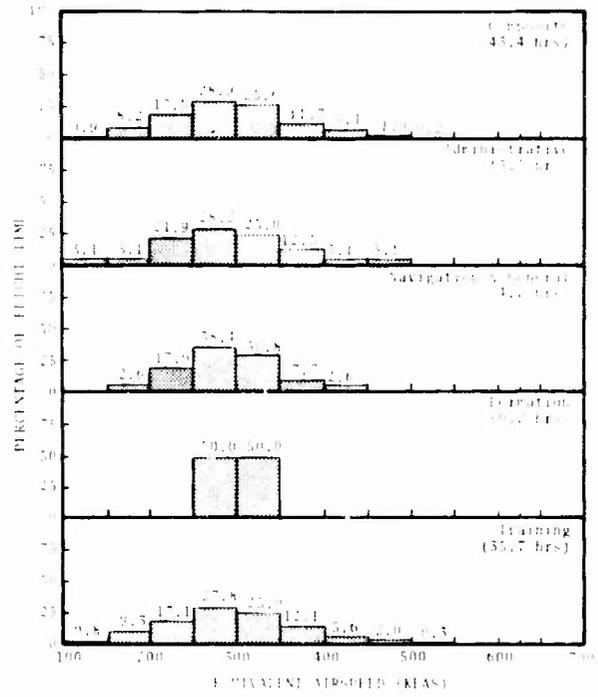
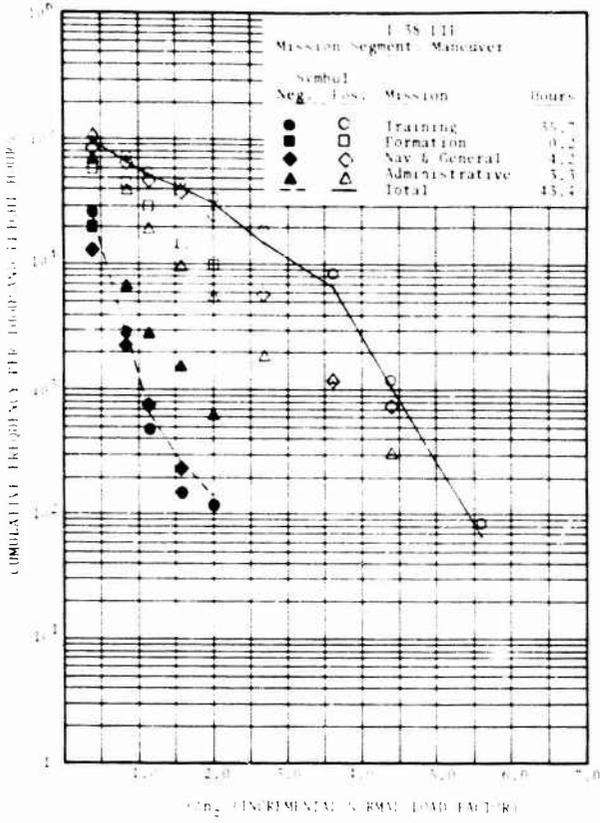
b. T-38 LTF

Figure 12. (Concluded)



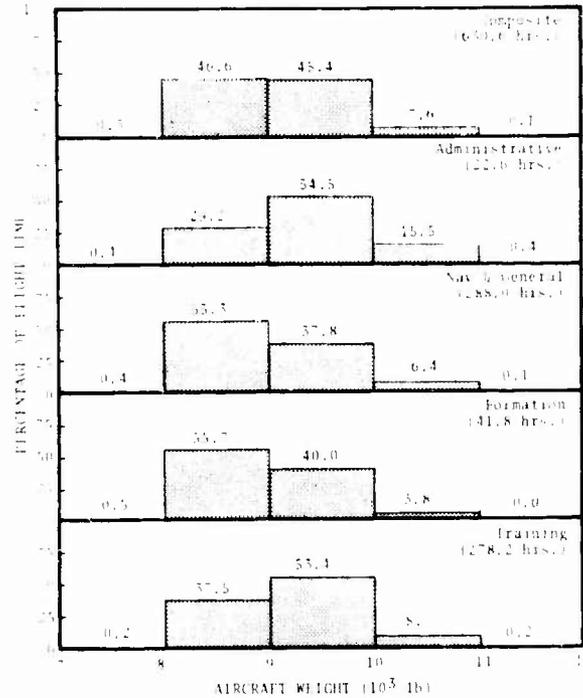
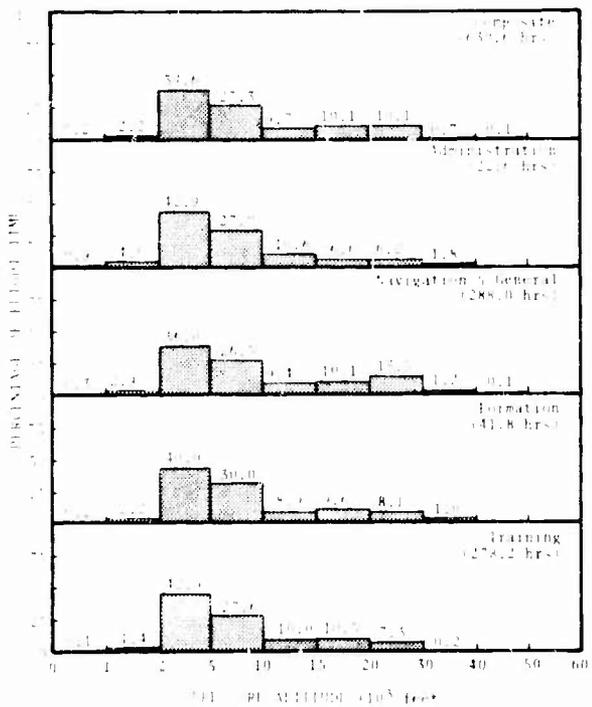
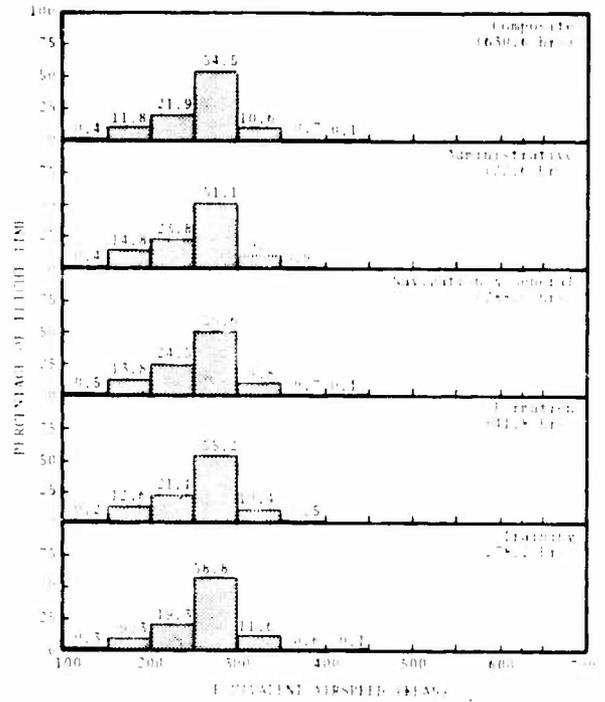
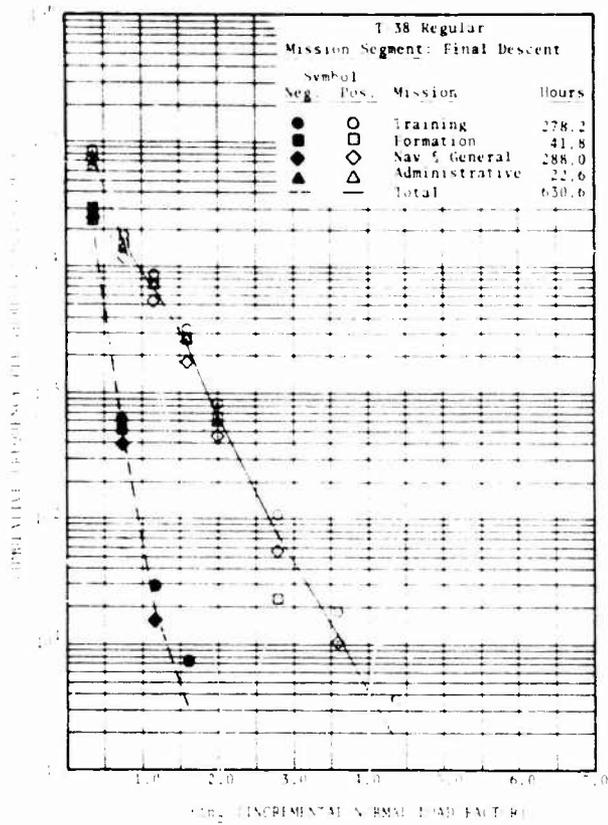
a. T-38 Regular

Figure 13. Maneuver Mission Segment: n_z Exceedance Curves and Time Histograms of Equivalent Airspeed, Altitude, and Weight by Mission Type



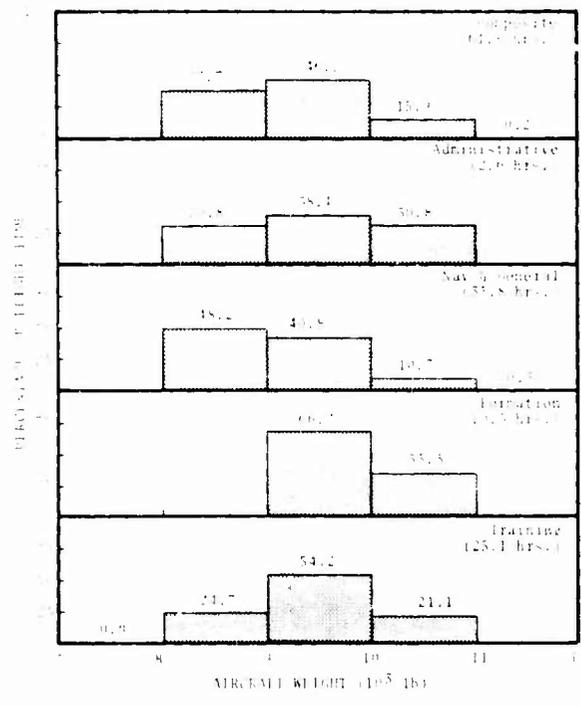
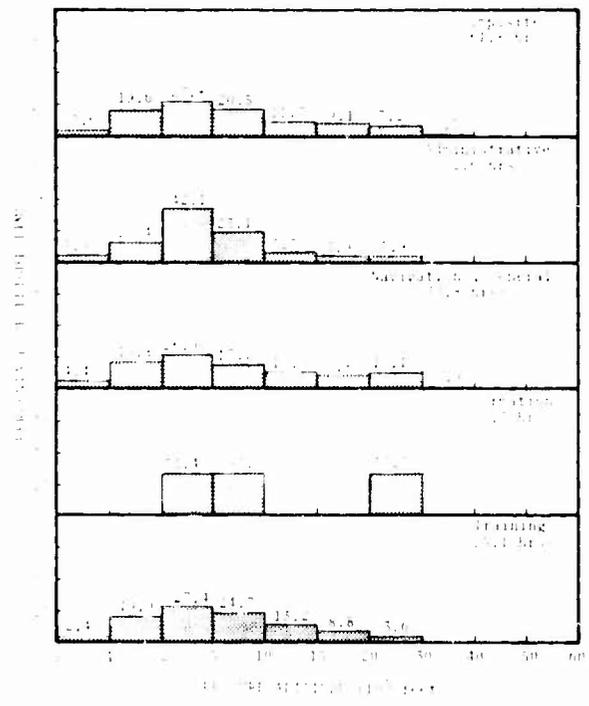
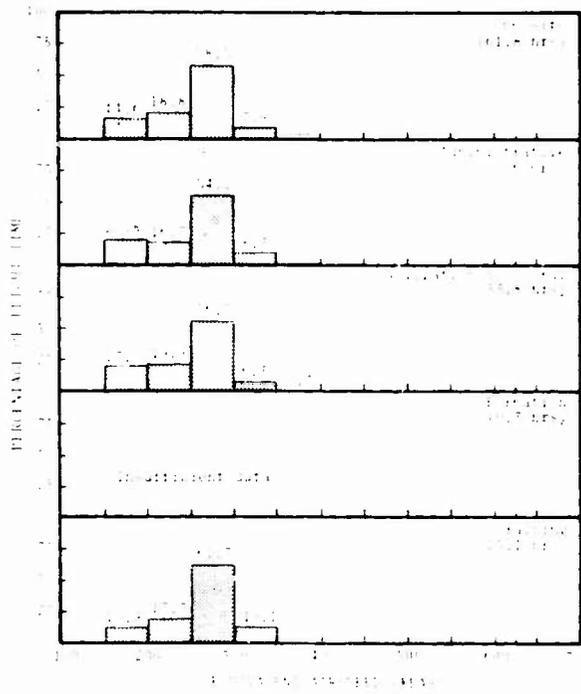
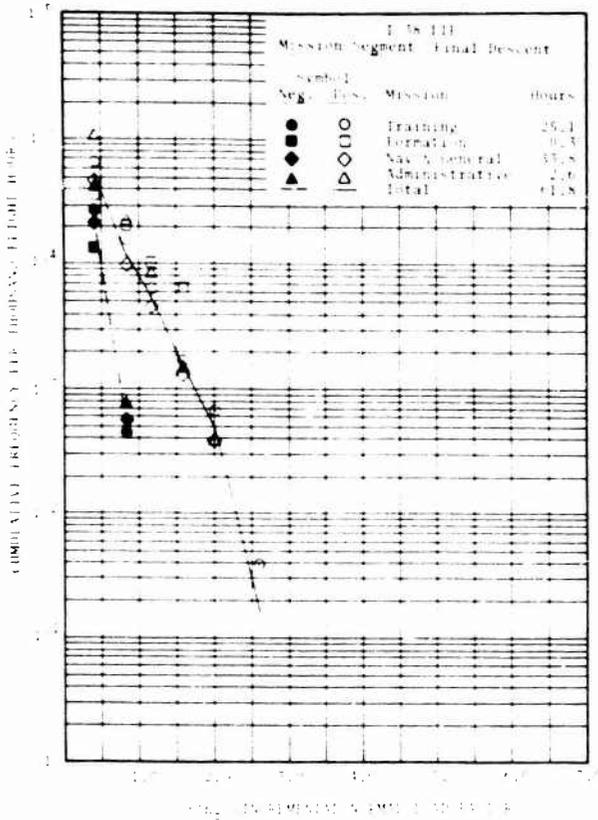
b. T-38 LTF

Figure 13. (Concluded)



a. T-38 Regular

Figure 14. Final Descent Mission Segment: n_z Exceedance Curves and Time Histograms of Equivalent Airspeed, Altitude, and Weight by Mission Type



b. T-38 LTF

Figure 14. (Concluded)

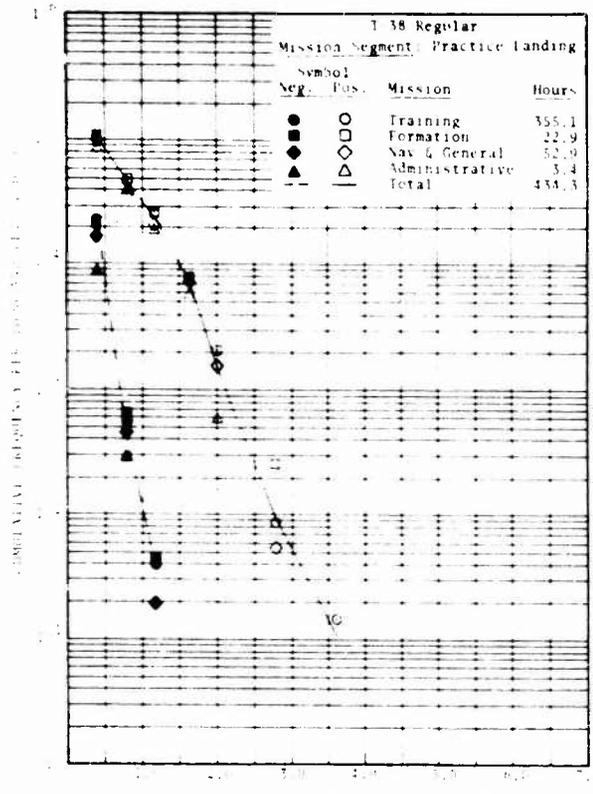


FIG. 15. INCREMENTAL GMM LOAD FACTOR

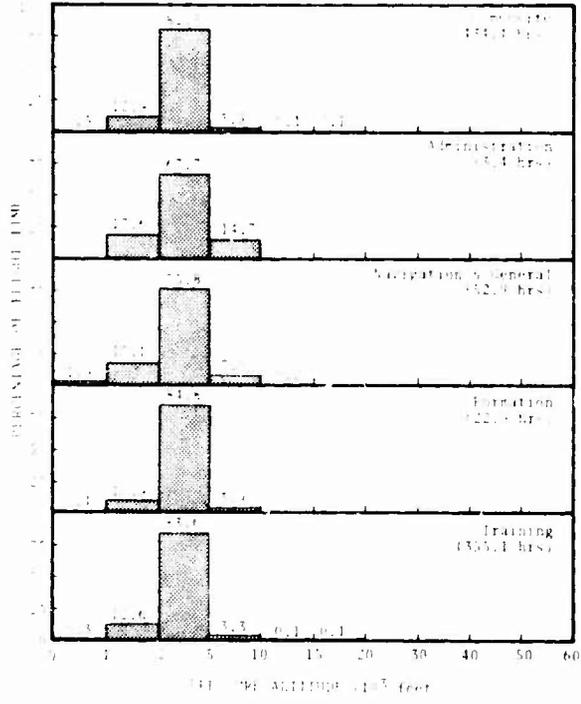
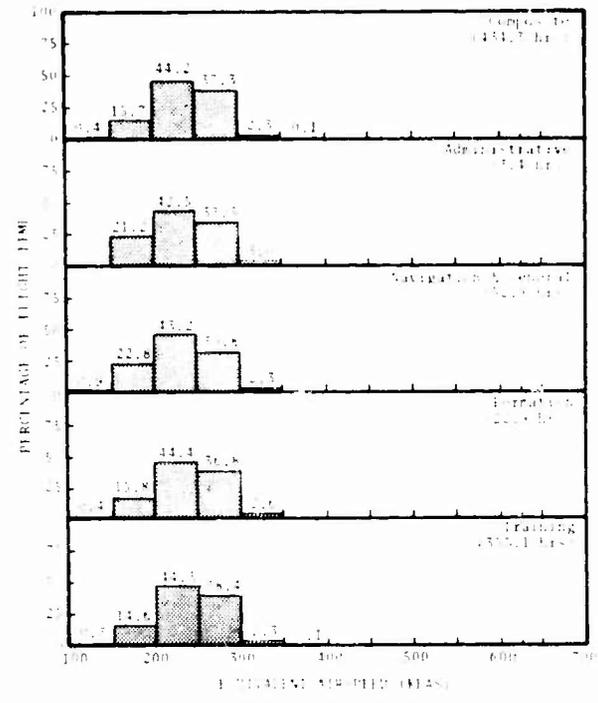
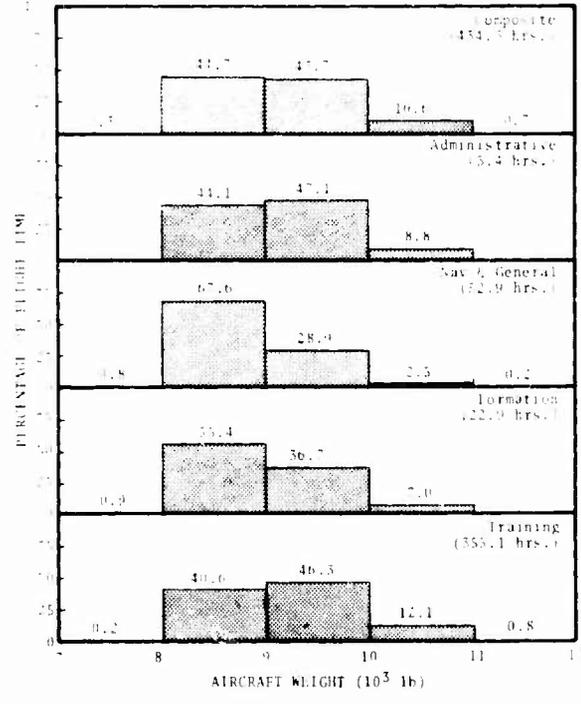


FIG. 16. TRUE ALTITUDE (10³ feet)



a. T-38 Regular

Figure 15. Practice Landing Mission Segment: n_2 Exceedance Curves and Time Histograms of Equivalent Airspeed, Altitude, and Weight by Mission Type

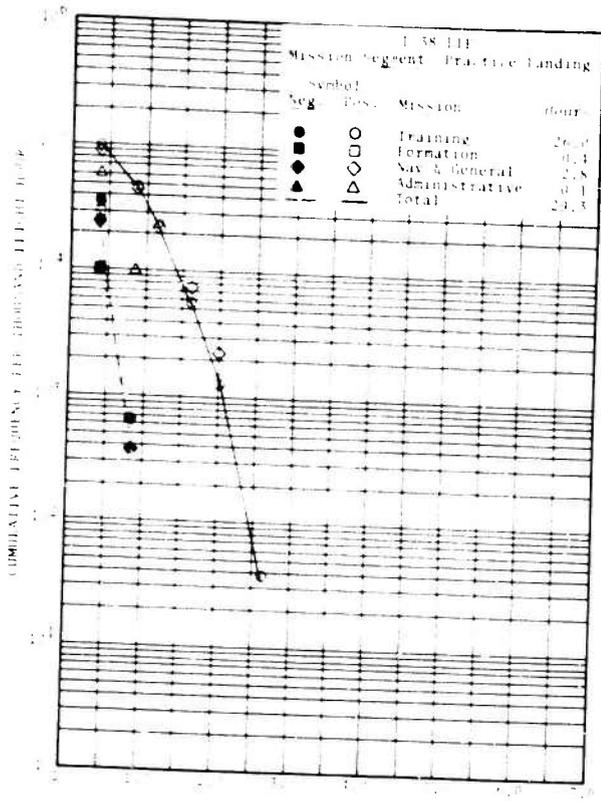
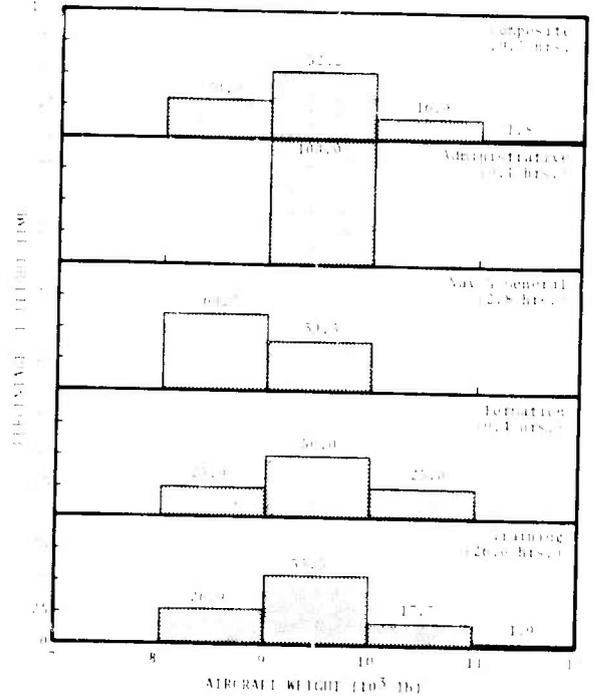
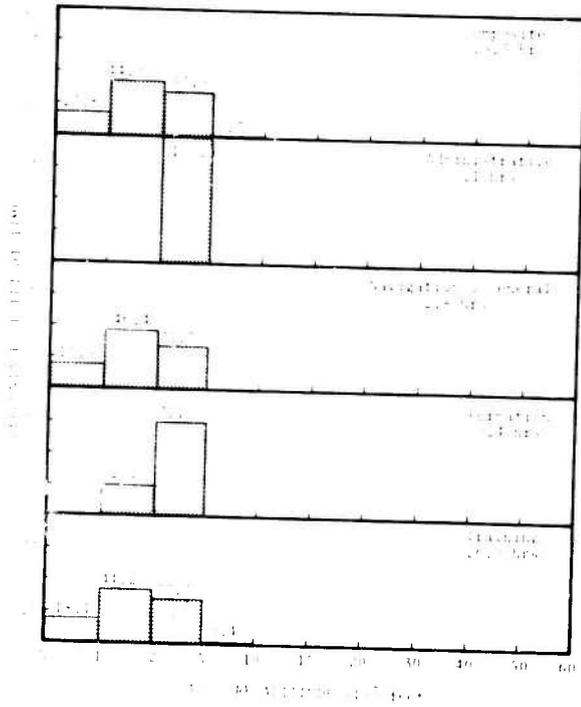
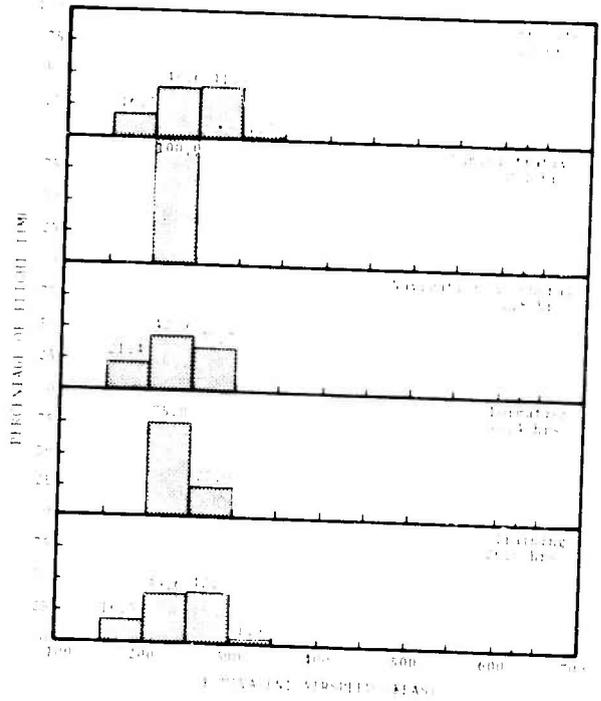


FIG. 15 (Continued) - Aircraft Weight



b. T-38 LTF

Figure 15. (Concluded)

TABLE VI Frequencies of n_z Peaks in n_{ze} Intervals versus Mission Segment for Each Mission Type

a. T-38 Regular

Mission 1 - Training

MISSION																TIME HOURS	
MISS. SEG.	LESS	-1.0	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6		7.8
INITIAL ASCENT																	173.5
CRUISE																	780.3
MANEUVER	2	16	26	75	837	7074	8363	5672	3844	3269	5990	4296	2521	860	33	1	345.4
FINAL DESCENT																	278.2
PRACTICE LDG																	355.1
TOTAL	2	18	32	113	1564	32840	67258	31888	16479	7324	6816	4374	2526	861	33	1	1932.5

Mission 2 - Formation

MISSION																TIME HOURS	
MISS. SEG.	LESS	-1.0	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6		7.8
INITIAL ASCENT																	25.4
CRUISE																	146.0
MANEUVER	1	1	4	64	1489	4149	2005	922	335	127	8						28.5
FINAL DESCENT																	41.8
PRACTICE LDG																	22.9
TOTAL	1	1	10	180	3946	8061	3790	1727	741	889	410	206	70	1			264.6

Mission 3 - Nav & General

MISSION																TIME HOURS	
MISS. SEG.	LESS	-1.0	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6		7.8
INITIAL ASCENT																	163.7
CRUISE																	1047.8
MANEUVER	2	3	32	279	7811	28796	9683	4178	1662	528	26	3	6				45.5
FINAL DESCENT																	288.0
PRACTICE LDG																	52.9
TOTAL	4	6	49	544	17370	45762	16695	6747	2557	1557	516	203	44	3			1597.8

Mission 4 - Administrative

MISSION																TIME HOURS	
MISS. SEG.	LESS	-1.0	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6		7.8
INITIAL ASCENT																	13.3
CRUISE																	37.2
MANEUVER	4	47	23	15	63	1105	1221	682	312	178	239	158	75	16			31.2
FINAL DESCENT																	22.6
PRACTICE LDG																	3.4
TOTAL	4	47	23	15	63	1917	2974	1352	543	258	266	164	75	16			107.7

TABLE VI - (CONCLUDED)

b. T-38 LTF

Mission 1 - Training

MISSION																TIME	
1																HOURS	
MISS. SEG.	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
INITIAL ASCENT				9	149	216	222	53	10	3	1	1					13.3
CRUISE				23	830	1492	784	470	154	39	5						59.3
MANEUVER	4	1	12	84	733	853	608	365	329	392	398	296	85	6			35.7
FINAL DESCENT				11	660	988	226	92	27	10	1						25.1
PRACTICE LDG				16	891	1010	684	419	84	34	1						26.0
TOTAL	4	1	16	143	3263	4568	2524	1399	604	678	406	297	85	6			159.4

Mission 2 - Formation

MISSION																TIME	
2																HOURS	
MISS. SEG.	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
INITIAL ASCENT						2	8	4	1								0.3
CRUISE						43	108	25	12	2							3.1
MANEUVER						4	2	4	2	1	3						0.2
FINAL DESCENT						4	5	3	1	2							0.3
PRACTICE LDG						4	10										0.4
TOTAL						57	133	36	16	5	3						4.3

Mission 3 - Nav & General

MISSION																TIME	
3																HOURS	
MISS. SEG.	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
INITIAL ASCENT				7	188	270	189	32	6	4							16.4
CRUISE				7	50	100	242	867	391	182	71	2					130.2
MANEUVER			1	2	6	47	76	59	58	48	77	20	2	3			4.2
FINAL DESCENT					18	688	799	160	70	17	11						33.8
PRACTICE LDG					1	67	85	66	28	8							2.8
TOTAL			1	9	82	1998	3658	1340	579	261	163	22	2	3			187.4

Mission 4 - Administrative

MISSION																TIME	
4																HOURS	
MISS. SEG.	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
INITIAL ASCENT						8	23	14	6								1.2
CRUISE						2	75	108	17	6	4						4.0
MANEUVER		2	3	4	14	166	191	90	37	14	15	3	2	3			3.3
FINAL DESCENT					2	106	135	25	17	4							2.6
PRACTICE LDG						1	5	1									0.1
TOTAL		2	3	4	18	356	462	147	64	21	19	3	2	3			11.1

APPENDIX D
ADDITIONAL DATA TABULATIONS

TABLE VII. Frequencies of n_z Peaks in n_z versus Gross Weight Intervals by Mission Segment for Each Mission Type

a. T-38 Regular

Mission 1 - Training

MISS. SFG. INITIAL ASCENT															TIME		
WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
8000					2	2	3	2									0.1
9000					2	21	56	5	1								0.9
10000				1	10	199	855	108	55	11	6						39.5
11000			1		41	1865	6220	455	106	50	4						155.2
TOTAL			1	1	57	2087	7134	548	142	41	10						175.5

MISS. SFG. CRUISE															TIME		
WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
7000							5	4		1							0.1
8000					56	1604	4590	922	647	262	53	5					56.9
9000			1	4	152	4141	12418	2888	1705	556	175	16					256.1
10000		1	5	12	141	5795	15889	4785	2660	676	157	4					405.2
11000		1		1	25	657	1809	579	178	57	22						64.0
TOTAL		2	4	17	534	10197	32711	8976	5190	1552	407	25					780.5

MISS. SFG. MANEUVER															TIME			
WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS	
8000					18	92	127	41	52	35	50	46	28	5	1		3.8	
9000		5	8	59	521	2638	3757	1586	1175	1251	2551	1859	945	257	9	1	120.7	
10000		7	14	52	530	5543	6388	5557	2504	1877	2912	2520	1172	225	7		216.2	
11000		2	4	4	8	85	116	78	40	40	58	47	12	5			4.7	
TOTAL		2	16	26	75	877	8556	10568	5242	5641	5185	5351	4274	2157	486	17	1	545.4

MISS. SFG. FINAL DESCENT															TIME		
WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
7000					11	28	8	8	5								0.5
8000			2	2	84	4085	9219	1281	707	544	91	7					104.4
9000				4	75	5485	8810	1596	778	274	100	14	4	1			148.4
10000					11	241	764	160	71	19	10	4					24.5
11000					5	55											0.6
TOTAL			2	6	168	7825	18854	2845	1564	656	201	25	4	1			278.2

MISS. SFG. PRACTICE LOG															TIME		
WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
7000					5	56	21	15	2	5							0.7
8000				8	89	5878	9559	5261	2957	1147	519	15	4				144.5
9000			6	79	5565	9598	3700	3112	914	200	10	1					164.5
10000				10	588	1685	949	592	105	25	1						42.8
11000					21	92	42	21									2.8
TOTAL				14	178	8057	20968	7975	6697	2166	547	26	5				355.1

TABLE VII (Continued)

Mission 2 - Formation

MISS. SEG. INITIAL ASCENT

WEIGHT	LESS	N2														TIME HOURS	
		-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6		7.8
9000						1	14	6	3								0.3
10000					1	46	115	11	3								6.1
11000					6	312	908	53	6	7	1						18.9
TOTAL					7	359	1037	70	12	7	1						25.4

MISS. SEG. CRUISE

WEIGHT	LESS	N2														TIME HOURS	
		-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6		7.8
7000						1	3	3									0.0
8000					7	268	841	137	76	29	15						11.7
9000				1	38	713	1971	448	342	103	41	3					59.9
10000				2	16	622	2400	858	360	121	31	3					72.2
11000				1	3	67	173	26	11	5	1						6.2
TOTAL				4	64	1671	5388	1669	820	298	88	6					146.0

MISS. SEG. MANEUVER

WEIGHT	LESS	N2														TIME HOURS	
		-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6		7.8
8000						5	15	12	7	10	10	4					7.5
9000				4	31	244	367	187	109	157	305	225	98	22	1		13.4
10000		1	1	1	42	360	594	224	160	125	191	179	82	23			14.4
11000					1	4	4	1	2	1	1						0.1
TOTAL		1	1	5	74	613	780	424	278	292	507	409	180	47	1		28.5

MISS. SEG. FINAL DESCENT

WEIGHT	LESS	N2														TIME HOURS	
		-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6		7.8
7000						2	12	1	1	1	1						0.2
8000					17	959	2013	232	120	64	17	1					23.4
9000				4	282	750	120	71	20	7							16.7
10000					14	49	3		1	1							1.6
11000																	3.0
TOTAL				21	1297	2824	356	192	86	26	1						41.8

MISS. SEG. PRACTICE LOG

WEIGHT	LESS	N2														TIME HOURS	
		-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6		7.8
7000						5	10	8	5	3							0.2
8000					9	277	919	264	264	99	29	4					12.6
9000				1	7	170	536	192	163	29	2	2					8.4
10000					2	26	75	42	21	3	3						1.6
11000																	0.0
TOTAL				1	14	474	1540	508	493	136	41	6					22.9

TABLE VII (Continued)

Mission 3 - Nav & General

MISS. SEG. INITIAL ASCENT

WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
8000																		
9000																		0.3
10000					1	1	63	255	36	14	4	4						4.6
11000					2	4	228	664	61	13	2	1						33.3
TOTAL					3	55	2170	7656	404	89	26	12	1					125.6

MISS. SEG. CRUISE

WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
7000																		
8000																		
9000					1	37	1130	3751	410	240	106	33	2					0.3
10000					18	127	3846	15173	2953	1519	573	165	11	1				74.2
11000		2	3	10	107	3469	15613	3563	1986	535	121	6	3	4				412.6
TOTAL		2	3	32	284	8835	36029	7027	3795	1231	320	19	4	4				503.2

MISS. SEG. MANEUVER

WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
8000		1																
9000																		
10000			2	6	53	435	770	426	319	346	716	361	136	21	1			0.7
11000		1	1	2	22	321	633	302	248	136	195	104	49	9	1			28.6
TOTAL		2	3	9	76	775	1421	735	575	492	923	469	186	30	2			15.8

MISS. SEG. FINAL DESCENT

WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
7000																		
8000						39	74	18	10	5	2							1.1
9000					2	68	5022	11984	1420	692	301	88	10	2				159.4
10000					2	41	1644	4470	468	229	66	22	3	1				108.8
11000					1	129	433	61	30	7	2							18.4
TOTAL					4	110	6835	16967	1967	961	379	112	13	3				288.0

MISS. SEG. PRACTICE LOG

WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
7000																		
8000																		
9000					1	14	633	2282	581	560	241	75	3					0.4
10000					1	7	179	861	221	191	47	8						35.8
11000						1	9	51	18	20								15.3
TOTAL					1	22	835	3220	839	779	293	84	3					1.3

TABLE VII (Continued)

Mission 4 - Administrative

MISS. SEG. INITIAL ASCENT																TIME HOURS		
WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
8000							4	58	97	13	9	2	1					0.1
9000																		0.1
10000							5	129	480	51	10	4	9					3.0
11000							9	187	581	64	13	6	4					10.2
TOTAL																		13.3

MISS. SEG. CRUISE																TIME HOURS		
WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
8000					1	25	67	14	4	1	3							2.2
9000						70	261	34	16	1	1							13.7
10000					5	81	223	69	32	14	2							19.3
11000						8	18	1	3		2							1.9
TOTAL					6	184	569	117	55	16	8							37.2

MISS. SEG. MANEUVER																TIME HOURS		
WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
8000						3	24	2	1									0.2
9000			1		2	18	140	257	97	44	36	55	48	18	2			5.8
10000	2	34	21	7	41	1193	1160	333	179	98	124	91	33	6				22.4
11000	1	10	5	6	4	98	146	77	23	20	26	6	2					2.8
TOTAL	3	45	26	15	63	1434	1987	509	247	154	205	145	53	8				31.2

MISS. SFG. FINAL DESCENT																TIME HOURS		
WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
7000							3											0.1
8000					2	116	379	46	29	17	4							6.6
9000					10	331	981	97	58	23	9							12.4
10000					2	75	220	20	11	9	4							3.5
11000							1				1							0.1
TOTAL					14	527	1163	164	98	49	14							22.6

MISS. SFG. PRACTICE LOG																TIME HOURS		
WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
8000						15	118	27	29	8								1.5
9000					1	14	31	31	16	10	2							1.5
10000							6	8	2									0.3
11000							1	1										0.0
TOTAL					1	29	156	67	47	18	2							3.4

TABLE VII (Continued)

b. T-38 LTF

Mission 1 - Training

MISS. SEG. INITIAL ASCENT

WEIGHT	LESS	MACH														TIME HOURS	
		-1.0	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.4	4.6	5.4	6.6		7.8
9000						3	10										0.2
10000					2	22	49	13	2								2.1
11000					7	225	337	58	10	3	1	1					11.0
TOTAL					9	230	416	73	12	3	1	1					15.3

MISS. SEG. CRUISE

WEIGHT	LESS	MACH														TIME HOURS	
		-1.0	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.4	4.6	5.4	6.6		7.8
8000					3	143	253	40	30	11	3						2.7
9000				4	8	416	735	244	156	23	11	1					17.5
10000					10	291	813	302	203	44	9	2					50.3
11000					2	83	140	80	39	4	1						8.8
TOTAL				4	25	937	1941	666	428	82	24	5					39.3

MISS. SEG. MANEUVER

WEIGHT	LESS	MACH														TIME HOURS	
		-1.0	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.4	4.6	5.4	6.6		7.8
8000		1			2	43	70	12	14	4	7	8	5				0.9
9000		1		5	18	286	379	181	87	103	199	127	74	14			10.9
10000		2	1	6	39	484	604	530	252	202	318	230	160	26	3		21.6
11000				1	7	33	35	53	24	27	36	22	10	1			2.3
TOTAL		4	1	12	66	850	1086	378	357	356	360	587	249	41	3		33.7

MISS. SEG. FINAL DESCENT

WEIGHT	LESS	MACH														TIME HOURS	
		-1.0	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.4	4.6	5.4	6.6		7.8
7000						1	3										0.0
8000					2	234	472	76	46	10	8						6.2
9000					6	373	643	113	41	13	5						15.6
10000					5	67	191	41	27	5	3	1					5.3
TOTAL					11	675	1511	250	114	28	16	1					25.1

MISS. SEG. PRACTICE LOG

WEIGHT	LESS	MACH														TIME HOURS	
		-1.0	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.4	4.6	5.4	6.6		7.8
8000					5	529	468	149	153	46	6						7.0
9000					7	453	609	370	292	53	20	1					13.9
10000					6	139	181	150	38	13	6						4.6
11000						3	18	10	3	1							0.3
TOTAL					16	928	1276	659	486	113	52	1					26.0

TABLE VII (Continued)

Mission 2 - Formation

MISS. SEG. INITIAL ASCENT

WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2					2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
10000						1	3															0.1
11000						1	9	1														0.2
TOTAL						2	12	1														0.3

MISS. SEG. CRUISE

WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2					2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS	
9000						19	65	6				5	1										1.2
10000						28	45	9				4	1										1.4
11000						6	12	2															0.5
TOTAL						53	122	17				9	2										3.1

MISS. SEG. MANUEVER

WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2					2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS	
10000						4	3	3				3	1		2								0.2
TOTAL						4	3	3				3	1		2								0.2

MISS. SEG. FINAL DESCENT

WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2					2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS	
9000						3	4	2				1	2										0.2
10000						1	1	1															0.1
TOTAL						4	5	3				1	2										0.3

MISS. SEG. PRACTICE LOG

WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2					2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS	
9000						1	2																0.1
10000						3	6																0.3
11000							4																0.1
TOTAL						4	12																0.4

TABLE VII (Continued)

Mission 3 - Nav & General

MISS. SEG. INITIAL ASCENT

WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
8000																		0.0
9000						47	74	8	2									0.9
10000					2	28	38	5	3			1						2.4
11000					5	204	334	30	6	3								13.1
TOTAL					7	279	446	43	11	3	1							16.4

MISS. SEG. CRUISE

WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
8000					1	114	244	16	7	4	2							7.0
9000				4	22	467	1312	269	135	55	22		2					31.1
10000				2	23	480	1343	348	204	68	19							62.3
11000				1	5	112	129	11	17	3								9.8
TOTAL				7	31	1173	3028	644	363	130	43	2						130.2

MISS. SEG. MANEUVER

WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
8000						4	14	8	6	15	5	1						0.3
9000			1	1	1	3	37	54	33	24	35	54	15	2	3			2.9
10000				1	2	8	13	23	14	8	18	4						0.9
11000									1	1								0.0
TOTAL			1	2	6	49	81	64	45	58	77	20	2	3				4.2

MISS. SEG. FINAL DESCENT

WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
7000																		0.0
8000					7	370	680	112	65	21	4							16.3
9000					6	284	470	56	31	8	8							13.8
10000					3	37	58	13	9	5	1							3.6
11000					2	7	7	1	1									0.1
TOTAL					18	698	1215	178	106	34	13							33.8

MISS. SEG. PRACTICE LGD

WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
8000					1	50	91	39	27	12	6							1.7
9000						17	22	30	15	2								1.1
TOTAL					1	67	113	69	42	14	6							2.8

TABLE VII (Concluded)

Mission 4 - Administrative

MISS. SEG. INITIAL ASCENT

WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
10000							2											0.2
11000							9	36	7									1.0
TOTAL							9	36	7									1.2

MISS. SEG. CRUISE

WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
8000							27	60										0.4
9000						1	43	69	6	6	3	2	3.8	4.6	5.4	6.6	7.8	0.4
10000					1		15	1										1.3
11000						3	5			1	3							1.7
TOTAL					2	73	149	16	7	8	3							4.0

MISS. SEG. MANEUVER

WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
9000							41	60										0.9
10000		1	3	4	12	143	131	33	18	7	3	1	1					2.0
11000		1			2	20	39	3	4	1	2	1	2					0.4
TOTAL		2	3	4	14	204	230	64	32	13	12	2	3	1				3.3

MISS. SEG. FINAL DESCENT

WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
8000							67	132										0.8
9000					1		29	62	8	2	1	1	3.8	4.6	5.4	6.6	7.8	0.8
10000						12	27	12	11	1								1.0
TOTAL					2	108	221	33	18	3	3							2.6

MISS. SEG. PRACTICE LOG

WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
9000							1	5										0.1
TOTAL							1	5	1									0.1

TABLE VIII Frequencies of n_z Peaks in n_z versus Equivalent Airspeed Intervals by Altitude and Gross Weight for Each Mission Type

a. T-38 Regular

Mission 1 - Training

MISSION	1	WEIGHT		7000		ALTITUDE		2000		n_z								TIME HOURS
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8		
LESS																	0.0	
100						6	42	20	1								0.8	
150						4	15	10	13	4	1						0.3	
200						6	12	3	8	3	2						0.2	
250																		
300																		
350																		
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL						16	69	33	22	7	3						1.3	

MISSION	1	WEIGHT		7000		ALTITUDE		5000		n_z								TIME HOURS
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8		
LESS																	0.0	
100																		
150																		
200									1	1							0.0	
250																		
300																		
350																		
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL									1	1							0.0	

MISSION	1	WEIGHT		8000		ALTITUDE		LESS		n_z								TIME HOURS
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8		
LESS																	0.0	
100						6	112	3	2								0.2	
150						7	335	5			1						0.6	
200							9										0.0	
250																		
300																		
350																		
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL						13	456	8	2		1						0.9	

MISSION	1	WEIGHT		8000		ALTITUDE		1000		n_z								TIME HOURS
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8		
LESS																	0.4	
100						1	66	801	64	6							7.0	
150						2	107	422	21	8	8	5					0.8	
200							25	120	6	10	4	3					1.3	
250								15									0.0	
300																		
350																		
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL						3	198	1358	91	24	12	8					18.5	

TABLE VIII (Continued)

Mission 1 - Training (Continued)

MISSION	1	WEIGHT														2000			
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2		2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
LESS																			
100										5									0.9
150						8	290	2681	974	91	4								34.0
200						1	10	1220	3289	1100	1446	482	100	4					74.8
250						8	111	5302	10274	2682	2384	1121	282	15	2				95.1
300						2	10	498	1441	172	192	58	35	3	2				8.0
350								21	10	2	1	1	1	1					0.1
400								2					1						0.0
450																			
500																			
550																			
625																			
700																			
TOTAL				2		9	139	7333	17700	4930	4074	1666	419	23	4				210.9

MISSION	1	WEIGHT														5000			
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2		2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
LESS																			
100																			
150										5	10								0.3
200						1	9	200	317	1									5.7
250							19	293	628	48	45	15	7						13.9
300							30	1053	2069	241	134	44	23	2					23.1
350							5	148	412	39	7	6							3.0
400								2	9	2	1								3.0
450											1								0.1
500																			0.0
550																			0.0
625																			
700																			
TOTAL						1	63	1721	3445	358	190	65	30	2					46.1

MISSION	1	WEIGHT														10000			
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2		2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
LESS																			
100																			
150										1									0.0
200										4	6								0.0
250							1	33	38	3									0.4
300							1	12	44	10	4	3	3	1	1				4.3
350							1	3	9	5	1	5	3	2	4	1			1.2
400														1	5				0.1
450														1	3	1			0.1
500														1	1				0.0
550														1	1				0.0
625																			
700																			
TOTAL						3	52	98	19	5	8	8	8	11	1				6.1

MISSION	1	WEIGHT														15000			
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2		2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
LESS																			
100										5									0.0
150																			0.0
200																			0.7
250							1	11	8	2	1								0.8
300							2	46	62	7	3		4	3	1				2.2
350							5	27	32	7	10		4	10	12	6			4.8
400							5	25	9	11	2	5	10	8	5	1	1		2.2
450								1	1	1	1	1	4	3	2	1	1		0.5
500								2	2	1	1	1	1	2	1				0.1
550														1					0.0
625																			
700																			
TOTAL						13	112	119	28	17	11	29	29	15	2	1			8.3

TABLE VIII (Continued)

Mission 1 - Training (Continued)

MISSION		ALTITUDE 20000												TIME HOURS			
VE AIRSPEED	1	WEIGHT		#000		ALTIMUDE		N2									
	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
100																	0.0
150																	0.1
200						1	3	5									2.7
250							28	39	5	4	3	2					10.7
300						1	121	151	30	12	8	4	5				4.2
350						2	54	85	17	9	7	9	6				0.2
400							2	4	1	2	5	3	2	2			0.0
450																	
500																	
550																	
625																	
700																	
TOTAL						4	208	285	53	27	23	18	13	2			17.9

MISSION		ALTITUDE 30000												TIME HOURS			
VE AIRSPEED	1	WEIGHT		#000		ALTIMUDE		N2									
	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
100																	0.0
150																	0.2
200																	0.5
250							2	4	1		1						0.1
300						1	12	21	10	2	1						0.0
350						1	8	12	9	2	1						0.1
400																	0.0
450																	
500																	
550																	
625																	
700																	
TOTAL						2	22	37	20	4	3						0.9

MISSION		ALTITUDE LESS												TIME HOURS			
VE AIRSPEED	1	WEIGHT		#000		ALTIMUDE		N2									
	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
100																	0.0
150																	0.2
200																	0.4
250							1	49	2								0.0
300							1	302	2								0.0
350								3									0.0
400																	0.0
450																	
500																	
550																	
625																	
700																	
TOTAL						2	354	4									0.6

MISSION		ALTITUDE 1000												TIME HOURS			
VE AIRSPEED	1	WEIGHT		#000		ALTIMUDE		N2									
	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
100																	0.2
150																	7.5
200																	17.8
250						1	97	1062	99	7							2.4
300							164	585	22	5	5	3					0.0
350							46	312	11	4	5	3					0.0
400							2	8	1			1					0.0
450							23	39	6	2		2					0.0
500								2	1			1					0.0
550																	
625																	
700																	
TOTAL						1	332	2009	140	18	10	10					27.9

TABLE VIII (Continued)

Mission 1 - Training (Continued)

MISSION		WEIGHT 9000 ALTITUDE 2000													TIME HOURS			
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6		5.4	6.6	7.8
100																		0.3
150																		30.9
200																		93.8
250																		127.6
300																		9.1
350																		0.2
400																		0.0
450																		
500																		
550																		
625																		
700																		
TOTAL				4	140	7048	19712	6022	4592	1374	335	16	2	2				261.7

MISSION		WEIGHT 9000 ALTITUDE 5000													TIME HOURS			
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6		5.4	6.6	7.8
100																		0.2
150																		4.1
200																		14.9
250																		40.9
300																		7.3
350																		0.5
400																		0.1
450																		0.0
500																		0.1
550																		
625																		
700																		
TOTAL				5	52	1907	4174	507	302	107	31	13	1	3	1			68.1

MISSION		WEIGHT 9000 ALTITUDE 10000													TIME HOURS			
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6		5.4	6.6	7.8
100																		0.0
150																		0.1
200																		0.5
250																		1.4
300																		13.0
350																		7.6
400																		2.6
450																		2.7
500																		1.8
550																		0.3
625																		
700																		
TOTAL		1	1	4	31	305	585	171	140	109	312	318	250	133	7			30.1

MISSION		WEIGHT 9000 ALTITUDE 15000													TIME HOURS			
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6		5.4	6.6	7.8
100																		0.0
150																		1.0
200																		5.0
250																		6.7
300																		24.6
350																		22.7
400																		9.4
450																		4.1
500																		0.9
550																		0.0
625																		
700																		
TOTAL		1	4	16	128	1232	1829	653	488	549	1252	1168	615	116	1	1		74.4

TABLE VIII (Continued)

Mission 1 - Training (Continued)

MISSION		WEIGHT														TIME		
VF AIRSPEED		ALTITUDE														HOURS		
		N2																
		9000																
		20000																
LESS		-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8		
100				1		6	48	53	4								0.0	
150			1		1	33	182	159	35	10							0.4	
200			1		2	53	451	445	179	97	86	37	1				3.0	
250						5	74	1002	1940	619	343	261	255	113	14	2	25.7	
300						7	46	691	1634	569	370	276	378	176	43	23	91.1	
350		1	1	3		11	79	139	80	83	93	174	70	12	3	3	40.3	
400						2	6		8	7	11	16	23	10	2	1	4.9	
450																	0.5	
500										1	1						0.0	
550																		
625																		
700																		
TOTAL		3	3	19	225	2459	4378	1493	915	737	868	383	82	4			187.0	

MISSION		WEIGHT														TIME		
VF AIRSPEED		ALTITUDE														HOURS		
		30000																
		N2																
		9000																
		20000																
LESS		-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8		
100								2									0.0	
150						1	15	37	8	3							0.0	
200						5	123	258	119	62	15	2					0.5	
250						14	302	888	321	179	54	11					8.5	
300		1	3	2	10	119	388	134	71	19	5				1		22.8	
350						2	3	1	1	1							7.6	
400																	0.0	
450																		
500																		
550																		
625																		
700																		
TOTAL		1	5	30	561	1376	583	316	89	18	1						39.6	

MISSION		WEIGHT														TIME		
VF AIRSPEED		ALTITUDE														HOURS		
		40000																
		N2																
		9000																
		20000																
LESS		-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8		
100																	0.1	
150																	0.7	
200						3	1										0.6	
250						1	1											
300																		
350																		
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL						4	2										1.1	

MISSION		WEIGHT														TIME		
VF AIRSPEED		ALTITUDE														HOURS		
		LFSE																
		N2																
		10000																
		20000																
LESS		-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8		
100																	0.0	
150																	0.1	
200							38										0.0	
250							55										0.1	
300							2										0.0	
350																		
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL							95										0.1	

TABLE VIII (Continued)

Mission 1 - Training (Continued)

MISSION	1	WEIGHT 10000										TIME HOURS									
		ALTITUDE 1000																			
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ			2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8		
LESS																					0.0
100																					2.5
150						1	16	249	21	1											4.9
200						1	25	166	12	4											0.6
250							5	40	3												0.0
300								3													0.0
350							16	10		1											0.0
400																					
450																					
500																					
550																					
625																					
700																					
TOTAL					2	64	448	36	6												8.0

MISSION	1	WEIGHT 10000										TIME HOURS									
		ALTITUDE 2000																			
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ			2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8		
LESS																					0.0
100																					11.6
150						1	46	664	171	11	1	1									35.2
200						2	272	1442	525	317	34	8									48.3
250						16	1022	2718	1575	1038	227	50	2								4.7
300				2		5	157	581	94	64	14	3	1								0.2
350						3	42	38	5	2	1	1				1					0.1
400							38	41	8			1									
450																					
500																					
550																					
625																					
700																					
TOTAL				2		27	1577	5484	2378	1432	277	64	3	1							100.1

MISSION	1	WEIGHT 10000										TIME HOURS									
		ALTITUDE 5000																			
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ			2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8		
LESS																					1.8
100																					6.8
150							5	18	1												18.4
200						1	13	73	225	19	12	2	2								5.7
250							4	726	1415	174	118	28	4								0.4
300							4	108	331	51	16	2	3		1						0.2
350						1		6	13	9	2	1	5	1							0.0
400								2	5	2	1	1	2	2		1					0.0
450								2	3	4	2	1	1	1	2	2					0.0
500																					
550																					
625																					
700																					
TOTAL				2	20	923	2015	252	150	35	17	4	5	1							33.3

MISSION	1	WEIGHT 10000										TIME HOURS									
		ALTITUDE 10000																			
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ			2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8		
LESS																					0.0
100																					0.1
150																					1.3
200						2	16	48	15	21	6		14	5	4	1	1				1.7
250							8	41	121	38	40	38	69	44	5						6.0
300							1	10	79	172	107	87	86	166	158	49	8				11.0
350							4	15	120	179	89	93	100	200	250	114	40	2			7.6
400							1	3	25	123	166	79	49	50	131	243	184	41	2		7.1
450							1	1	10	74	85	45	29	27	64	93	73	19	1		3.7
500																					0.5
550																					0.0
625																					
700																					
TOTAL		1	2	4	72	499	864	408	330	320	641	798	431	112	6						41.1

TABLE VIII (Continued)

Mission 1 - Training (Continued)

MISSION	WEIGHT 10000											ALTITUDE 15000											TIME HOURS		
	1	LESS										N2													
VE AIRSPEED	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8										
100					0																				
150				1	3	1035	365	11																	
200					23	415	1698	410	30	3	1														
250			1		35	357	817	473	213	56	42	12	3	1											
300					28	322	404	368	349	231	350	167	68	5											
350		1	2	3	50	356	486	449	409	390	645	570	387	47											
400					42	260	268	204	226	259	480	395	145	47	1										
450			1		18	153	186	83	71	159	176	64	5												
500					2	31	35	15	15	21	19	14	3	2											
550							2				1														
625																									
700																									
TOTAL		2	6	7	201	2935	4261	2013	1313	1031	1697	1334	670	107	1										

MISSION	WEIGHT 10000											ALTITUDE 20000											TIME HOURS		
	1	LESS										N2													
VE AIRSPEED	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8										
100					1																				
150					13	134	37	7																	
200			1		75	520	491	133	15	4	1														
250					98	884	776	483	231	95	44	10	2												
300		1	1	6	68	349	2135	969	637	316	252	72	24												
350		3	1	6	52	666	4120	990	617	307	269	75	33	2											
400		1	1	2	12	117	247	135	89	88	81	22	4		2										
450							10	9	9	6	12	3													
500							1				1														
550																									
625																									
700																									
TOTAL		5	4	19	318	3172	5816	2726	1598	816	660	182	63	2											

MISSION	WEIGHT 10000											ALTITUDE 30000											TIME HOURS		
	1	LESS										N2													
VE AIRSPEED	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8										
100					7																				
150					26	30	11	2																	
200					16	250	799	322	172	35	3														
250					4	28	645	2646	1003	566	120	14	1												
300					2	12	246	1088	377	171	42	12	4	2	1										
350							2	11	5	4	2	1	2												
400																									
450																									
500																									
550																									
625																									
700																									
TOTAL		2	8	61	1176	4574	1718	915	199	30	7	2	1												

MISSION	WEIGHT 10000											ALTITUDE 40000											TIME HOURS		
	1	LESS										N2													
VE AIRSPEED	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8										
100																									
150					1	1																			
200					9	11	2	2	1																
250					8	10	4	3	1		1														
300					2			1																	
350																									
400																									
450																									
500																									
550																									
625																									
700																									
TOTAL		1		1	20	22	6	6	2	1	1														

TABLE VIII (Continued)

Mission 1 - Training (Continued)

MISSION	1	WEIGHT										TIME HOURS									
		11000	ALTITUDE																		
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ			2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8		
100																					0.0
150						1	23														0.1
200						2	72														0.0
250							13														0.0
300							1														0.0
350																					
400																					
450																					
500																					
550																					
625																					
700																					
TOTAL						3	109														0.1

MISSION	1	WEIGHT										TIME HOURS									
		11000	ALTITUDE																		
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ			2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8		
100																					0.0
150						21	103	2													0.6
200						31	125	2													2.2
250						20	294	18	1												2.1
300						3	45	6													0.2
350																					0.0
400																					
450																					
500																					
550																					
625																					
700																					
TOTAL						75	567	28	1												5.2

MISSION	1	WEIGHT										TIME HOURS									
		11000	ALTITUDE																		
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ			2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8		
100																					1.4
150						12	70	6													12.1
200						1	114	513	85	34	6										23.8
250						6	642	1622	337	165	40	10									11.2
300						12	475	1230	65	20	4	3									0.2
350						1	20	53	4	1											0.0
400																					
450																					
500																					
550																					
625																					
700																					
TOTAL						20	1263	3488	497	220	50	13									46.7

MISSION	1	WEIGHT										TIME HOURS									
		11000	ALTITUDE																		
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ			2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8		
100																					0.0
150						1		2	2												0.1
200						2	25	71	4	2		1									2.6
250						6	225	833	67	19	9	2									18.7
300						8	305	1707	74	12	2										24.3
350						9		28	2												0.3
400								7		1											0.1
450																					0.0
500																					
550																					
625																					
700																					
TOTAL						17	564	2648	142	34	11	3									45.7

TABLE VIII (Continued)

Mission 1 - Training (Continued)

MISSION	1	WEIGHT		ALTITUDE													TIME HOURS			
		11000	10000	10000																
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ				2.6	3.0	3.8	4.6	5.4	6.6	7.8	
100						1														0.0
150						1														0.0
200						5	8	2												0.3
250					3	55	50	6	2											6.8
300					2	112	178	12	3	2										15.5
350	2	1	1		25	99	8	2	1	1	3			6	1					3.4
400					7	22	2	1	1					2	1		1			0.2
450					1	3	1	1	2					1	1					0.1
500									1											0.0
550																				
625																				
700																				
TOTAL	2	1	1		5	207	360	33	9	7	4	15	3	1						26.4

MISSION	1	WEIGHT		ALTITUDE													TIME HOURS			
		11000	15000	15000																
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ				2.6	3.0	3.8	4.6	5.4	6.6	7.8	
100																				0.0
150							14	2												0.1
200						1	5	7	1	1										0.4
250					1	18	33	15	2	6	1									5.3
300		1	1	1	3	36	70	7	9	5	9				3	1				1.2
350	2				1	15	58	12	3	3	5			8	2					2.3
400				1	1	4	4	3	1	1	3			2	2		1			0.2
450						2	4	2	1	1	1			1	1					0.2
500																				0.0
550																				
625																				
700																				
TOTAL	3	1	2	5	76	188	48	17	16	17	21	8	2							21.5

MISSION	1	WEIGHT		ALTITUDE													TIME HOURS			
		11000	20000	20000																
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ				2.6	3.0	3.8	4.6	5.4	6.6	7.8	
100																				0.0
150						2	13	3	1											0.0
200						1	22	23	15	3										0.1
250						6	87	154	43	17	11									1.4
300		1		1	13	182	403	74	21	11	10			4						12.9
350					3	57	154	26	9	4	5			2		1				29.2
400						2	6	1			1			1						7.9
450																				0.1
500																				0.0
550																				0.0
625																				
700																				
TOTAL	1		1	25	364	743	160	50	29	19	8	1								51.6

MISSION	1	WEIGHT		ALTITUDE													TIME HOURS			
		11000	30000	30000																
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ				2.6	3.0	3.8	4.6	5.4	6.6	7.8	
100																				0.0
150																				0.0
200							20													0.0
250			1	1		10	16	5	2	2										0.7
300			1		1	32	69	10	9	5					1					3.0
350			1	1	1	17	47	7	3	2				2	1					1.7
400						5	6	2			1			1	1					0.1
450						2	2							1						0.1
500																				0.0
550																				0.0
625																				
700																				
TOTAL	3	2	2	66	161	24	14	10	4	3										5.6

TABLE VIII (Continued)

Mission 1 - Training (Concluded)

MISSION	1	WEIGHT		11000		ALTITUDE		40000		NZ										TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS			
LESS																				
100																	0.0			
150																	0.3			
200							1		1	1	1						0.3			
250							6	4	1	1	2	3					0.0			
300							1	1	1	1							0.0			
350																				
400																				
450																				
500																				
550																				
625																				
700																				
TOTAL						13	6	7	2	4	4						0.7			

MISSION	1	WEIGHT		11000		ALTITUDE		50000		NZ										TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS			
LESS																				
100																	0.0			
150																	0.0			
200																				
250																				
300																				
350																				
400																				
450																				
500																				
550																				
625																				
700																				
TOTAL																	0.0			

TABLE VIII (Continued)

Mission 2 - Formation

MISSION	2	WEIGHT		7000		ALTITUDE		2000		NZ										TIME HOURS
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8				
100																	0.0			
150																	0.2			
200								9	4	2							0.1			
250							3	3	3	3	1						0.1			
300							3	8	2	4	3						0.1			
350																	0.0			
400																				
450																				
500																				
550																				
625																				
700																				
TOTAL							6	20	9	9	4	1					0.4			

MISSION	2	WEIGHT		7000		ALTITUDE		5000		NZ										TIME HOURS
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8				
100																				
150																				
200							1	2									0.0			
250							1	3									0.0			
300																				
350																				
400																				
450																				
500																				
550																				
625																				
700																				
TOTAL							2	5									0.0			

MISSION	2	WEIGHT		8000		ALTITUDE		LESS		NZ										TIME HOURS
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8				
100																				
150																				
200							1	23									0.0			
250							1	24	1								0.1			
300							2	1									0.0			
350																	0.0			
400																				
450																				
500																				
550																				
625																				
700																				
TOTAL							4	48	1								0.1			

MISSION	2	WEIGHT		8000		ALTITUDE		1000		NZ										TIME HOURS
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8				
100																				
150																				
200							9	146	8								0.1			
250							20	78	1								1.1			
300							1	23	2	2							0.8			
350								6	1								0.1			
400																	0.0			
450																				
500																				
550																				
625																				
700																				
TOTAL							30	254	17	2							2.0			

TABLE VIII (Continued)

Mission 2 - Formation (Continued)

MISSION		WEIGHT		8000		ALTITUDE		2000		NZ								TIME HOURS
MISSION	2	WEIGHT	8000	ALTITUDE	2000	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8					
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8		
100																		
150																		
200						17	283	115	11	1							0.1	
250						2	134	374	115	154	56	12	2				4.5	
300						10	730	1504	285	245	111	35	2				8.5	
350							104	302	28	14	9	5					12.2	
400																	1.1	
450																	0.0	
500																		
550																		
625																		
700																		
TOTAL						12	985	2463	543	424	177	52	4				26.3	

MISSION		WEIGHT		8000		ALTITUDE		5000		NZ								TIME HOURS
MISSION	2	WEIGHT	8000	ALTITUDE	5000	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8					
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8		
100																		
150																		
200						1												
250						2	53	86	2								0.1	
300						7	81	176	9	7	4	4					1.5	
350						5	238	520	35	20	5	1	1				3.3	
400						2	32	83	4	1	1	2					4.8	
450							1	2	1								0.5	
500																	0.0	
550																		
625																		
700																		
TOTAL						16	406	867	51	28	10	7	1				10.1	

MISSION		WEIGHT		8000		ALTITUDE		10000		NZ								TIME HOURS
MISSION	2	WEIGHT	8000	ALTITUDE	10000	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8					
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8		
100																		
150																		
200																		
250						1		1									0.0	
300						13	20	1	1	1							0.1	
350						2	7										0.9	
400						1											0.3	
450								1									0.0	
500																	0.0	
550																	0.0	
625																	0.0	
700																	0.0	
TOTAL						17	29	1	1	1							1.4	

MISSION		WEIGHT		8000		ALTITUDE		15000		NZ								TIME HOURS
MISSION	2	WEIGHT	8000	ALTITUDE	15000	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8					
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8		
100																		
150																		
200																		
250						1		2									0.0	
300						8		7									0.1	
350						5		10	1		1	2					1.0	
400								1			2	3	7				0.5	
450								1			2	1					0.0	
500																	0.0	
550																	0.0	
625																	0.0	
700																	0.0	
TOTAL						1	14	20	6		7	5	3				1.7	

TABLE VIII (Continued)

Mission 2 - Formation (Continued)

MISSION	2	WEIGHT		9000		ALTITUDE		20000										
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
100																		0.0
150																		0.2
200																		0.7
250							4	8	2	1								3.2
300							24	47	14	4	1							1.6
350							25	42	11	4	2	4						0.1
400									1		1	2	1					0.0
450																		
500																		
550																		
625																		
700																		
TOTAL							53	97	28	9	4	6	1					5.6

MISSION	2	WEIGHT		9000		ALTITUDE		30000										
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
100																		
150																		
200																		
250																		
300								1										0.2
350							5	2	3	1								0.6
400							4	3	2		1							0.2
450																		
500																		
550																		
625																		
700																		
TOTAL							10	5	5	1	1							1.0

MISSION	2	WEIGHT		9000		ALTITUDE		LESS										
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
100																		
150																		
200																		
250							4											0.0
300							7											0.0
350																		
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL							11											0.0

MISSION	2	WEIGHT		9000		ALTITUDE		1000										
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
100																		
150																		
200																		
250							13	78	7									0.0
300							20	69	1									0.6
350							2	8	2									1.0
400							9	3										0.2
450																		0.0
500																		
550																		
625																		
700																		
TOTAL							46	158	10									1.8

TABLE VIII (Continued)

Mission 2 - Formation (Continued)

MISSION	2	WEIGHT		9000		ALTITUDE		2000		TIME HOURS								
		-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ									
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
100																		0.1
150																		2.5
200							17	182	57	5	1							6.3
250						2	75	335	116	97	13	5						9.8
300				1	11	304	685	264	216	54	13	2						1.3
350					1	57	162	26	16	6						1		0.0
400																		0.0
450																		0.0
500																		0.0
550																		0.0
625																		0.0
700																		0.0
TOTAL						1	14	453	1304	463	327	74	18	2		1		20.1

MISSION	2	WEIGHT		9000		ALTITUDE		5000		TIME HOURS								
		-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ									
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
100																		0.1
150							2	5										0.9
200							12	19		1								2.4
250						1	31	74		7	1	2						4.2
300						1	83	200		37	20	1						0.8
350						1	30	59		10	5	2						0.0
400								1										0.0
450																		0.0
500												1						0.0
550																		0.0
625																		0.0
700																		0.0
TOTAL							3	158	418	40	27	5	2				1	8.3

MISSION	2	WEIGHT		9000		ALTITUDE		10000		TIME HOURS								
		-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ									
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
100																		0.0
150																		0.0
200							2	1										0.1
250							8	3										1.7
300							17	6				1	1					0.6
350							2	12	2		1	1	2	4				0.2
400							4	4		1	1	1	8	12			1	0.2
450							4	3	3	2	2	2	7	10			2	0.2
500					1	5	6	4	4	4	4	3	5	4			1	0.1
550													2	1				0.0
625																		0.0
700																		0.0
TOTAL						1	25	45	16	8	10	9	27	31	5			2.9

MISSION	2	WEIGHT		9000		ALTITUDE		15000		TIME HOURS								
		-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ									
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2 <td>0.2 <td>1.4 <td>1.8</td> <td>NZ</td> <td>2.2</td> <td>2.6</td> <td>3.0</td> <td>3.8</td> <td>4.6</td> <td>5.4</td> <td>6.6</td> <td>7.8</td> <td></td> </td></td>	0.2 <td>1.4 <td>1.8</td> <td>NZ</td> <td>2.2</td> <td>2.6</td> <td>3.0</td> <td>3.8</td> <td>4.6</td> <td>5.4</td> <td>6.6</td> <td>7.8</td> <td></td> </td>	1.4 <td>1.8</td> <td>NZ</td> <td>2.2</td> <td>2.6</td> <td>3.0</td> <td>3.8</td> <td>4.6</td> <td>5.4</td> <td>6.6</td> <td>7.8</td> <td></td>	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
100							37	9										0.1
150							4	24	13									0.3
200							11	13		2	2	2						0.5
250							25	39	17	8	11	17	8	5				2.7
300						1	4	23	43	24	12	18	43	20				2.3
350							1	11	22	15	7	11	37	46	17		4	1.3
400							1	1	3	8	3	8	23	21	10		5	0.6
450										2	1	1	11	4				0.1
500													1	1				0.0
550																		0.0
625																		0.0
700																		0.0
TOTAL						2	8	106	158	85	36	51	134	123	55	13	1	7.9

TABLE VIII (Continued)

Mission 2 - Formation (Continued)

MISSION		WEIGHT		ALTITUDE		TIME												
VE AIRSPEED		9000		20000		HOURS												
LESS		-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
100																		0.0
150																		0.3
200						2	12	5	2	1								4.6
250						4	60	89	29	19	12	10	1					17.2
300						19	204	425	125	68	60	42	14	2				12.5
350						10	148	401	128	72	53	84	38	7				1.3
400						2	11	30	17	13	13	43	24	3	2			0.1
450										1	3	8	1					0.0
500																		
550																		
625																		
700																		
TOTAL						37	435	950	301	174	141	187	78	12	2			36.0

MISSION		WEIGHT		ALTITUDE		TIME												
VE AIRSPEED		9000		30000		HOURS												
LESS		-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
100																		0.0
150																		0.0
200																		0.1
250							3	32	75	39	18	3	2					3.0
300						2	10	104	337	127	66	17	7					10.2
350						1	4	50	176	60	31	8	3					4.6
400								1	4	1								0.0
450																		
500																		
550																		
625																		
700																		
TOTAL						3	17	189	594	226	116	28	12					17.8

MISSION		WEIGHT		ALTITUDE		TIME												
VE AIRSPEED		10000		1000		HOURS												
LESS		-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
100																		0.0
150																		0.1
200																		0.2
250																		0.0
300																		0.0
350																		0.0
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL						6	36	2										0.4

MISSION		WEIGHT		ALTITUDE		TIME												
VE AIRSPEED		10000		2000		HOURS												
LESS		-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
100																		0.0
150																		0.6
200																		1.7
250							1	24	8									2.7
300						2	24	95	31	17	1							0.8
350						1	38	105	107	59	11	4	1					0.0
400						1	25	44	23	11								0.0
450							1	1										0.0
500																		0.0
550																		0.0
625																		
700																		
TOTAL						3	89	269	165	87	14	4	1					5.9

TABLE VIII (Continued)

Mission 2 - Formation (Continued)

MISSION:		2		WEIGHT		10000		ALTITUDE		5000												
VF AIRSPEED		LESS		-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME		
																				HOURS		
100																					0.0	
150																					0.2	
200								2	5												0.8	
250								4	20												1.2	
300								54	90		4	1									0.4	
350							2	28	45		3	2									0.1	
400								2	3						1						0.0	
450																1					0.0	
500																					0.0	
550																					0.0	
625																					0.0	
700																					0.0	
TOTAL							2	90	163		7	3			1	1					2.7	

MISSION:		2		WEIGHT		10000		ALTITUDE		10000												
VF AIRSPEED		LESS		-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME		
																				HOURS		
100																					0.0	
150																					0.0	
200								1		2											0.1	
250								1	5	1	2										1.2	
300								1	15	1	4	3	6	3							1.1	
350								1	6	22	4	7	6	9	11						0.6	
400							1	9	7	8	6	4	12	9	12	2					0.5	
450							3	10	5	3	3	3	9	18	11	3					0.3	
500							1	6	3	2	1	3	7	10	8	2					0.0	
550										1				1							0.0	
625																					0.0	
700																					0.0	
TOTAL							6	33	57	22	23	19	43	52	34	7					4.0	

MISSION:		2		WEIGHT		10000		ALTITUDE		15000												
VF AIRSPEED		LESS		-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME		
																				HOURS		
100																					0.2	
150								51	28	1											1.4	
200								3	28	140	25	3									1.6	
250								2	29	37	29	10	7	9	1						2.7	
300								1	22	30	24	23	23	23	11	5	1				3.2	
350								3	24	22	28	28	24	34	46	29	9				1.3	
400							1	3	18	11	12	8	12	25	37	8	6				0.4	
450								2	6	6	5	5	3	11	11	2					0.1	
500								1	2	1			1	6	3						0.0	
550																					0.0	
625																					0.0	
700																					0.0	
TOTAL							1	1	15	180	275	124	77	70	108	109	44	16			10.8	

MISSION:		2		WEIGHT		10000		ALTITUDE		20000												
VF AIRSPEED		LESS		-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME		
																				HOURS		
100																					0.0	
150																					0.5	
200								8	31	13	14	1									4.8	
250								4	103	84	52	25	7	4	1						15.7	
300								8	104	389	152	105	42	23	7						14.7	
350								5	101	445	165	86	47	28	7	1					1.7	
400								1	12	50	15	11	8	7	4	1					0.0	
450																					0.0	
500																					0.0	
550																					0.0	
625																					0.0	
700																					0.0	
TOTAL							1	1	26	352	981	398	228	105	63	19	2				37.6	

TABLE VIII (Continued)

Mission 2 - Formation (Continued)

MISSION	2	WEIGHT	10000	ALTITUDE	30000	NZ										TIME	
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
100																	0.0
150																	0.2
200																	6.1
250					2	4	2										19.6
300					1	46	163	61	25	6	1						8.3
350					6	178	707	234	91	26	4						0.1
400					2	88	370	119	37	11	2			1			0.0
450						1	7	2	1	1							0.0
500							1	1									0.0
550								1									0.0
625																	0.0
700																	0.0
TOTAL					1	9	515	1247	420	154	44	7			2		34.3

MISSION	2	WEIGHT	10000	ALTITUDE	40000	NZ										TIME	
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
100																	0.0
150																	0.1
200																	0.2
250						2	1										0.0
300					1	3											0.2
350						1											0.0
400																	0.0
450																	0.0
500																	0.0
550																	0.0
625																	0.0
700																	0.0
TOTAL						3	5										0.3

MISSION	2	WEIGHT	11000	ALTITUDE	LESS	NZ										TIME	
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
100																	0.0
150																	0.0
200																	0.0
250							6										0.0
300							4										0.0
350							4										0.0
400																	0.0
450																	0.0
500																	0.0
550																	0.0
625																	0.0
700																	0.0
TOTAL							14										0.0

MISSION	2	WEIGHT	11000	ALTITUDE	1000	NZ										TIME	
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
100																	0.0
150																	0.2
200																	0.2
250						4	18										0.1
300						8	14										0.0
350						5	34	3									0.2
400							15										0.1
450																	0.0
500																	0.0
550																	0.0
625																	0.0
700																	0.0
TOTAL						17	81	3									0.6

TABLE VIII (Continued)

Mission 2 - Formation (Continued)

MISSION	2	WEIGHT		1:000		ALTITUDE		2000		NZ								TIME HOURS
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8		
100																	0.1	
150								5									0.6	
200						10		37	1	2							2.0	
250						79		119	30	9	5						1.7	
300						57		182	10	2	1	1					0.1	
350						5		42	7									
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL						161	385	43	13	6	1						4.5	

MISSION	2	WEIGHT		11000		ALTITUDE		5000		NZ								TIME HOURS
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8		
100																	0.0	
150																	0.2	
200						2	1	3									2.0	
250						20	20	89	5								4.1	
300						2	59	264	13	1	2						0.0	
350							1	2									0.0	
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL						4	81	358	18	1	2						6.3	

MISSION	2	WEIGHT		11000		ALTITUDE		10000		NZ								TIME HOURS
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8		
100																	0.0	
150																	0.0	
200																	0.8	
250							6	10									2.1	
300						25	25	33	3		1						0.5	
350						1	6	27	1								0.1	
400								2									0.0	
450								1		1	1							
500																		
550																		
625																		
700																		
TOTAL						1	37	73	4	1	2						3.5	

MISSION	2	WEIGHT		11000		ALTITUDE		15000		NZ								TIME HOURS
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8		
100																	0.0	
150																	0.0	
200							1										0.6	
250							2	3									1.6	
300							7	16	1								0.6	
350							4	8	1								0.0	
400																	0.0	
450						1				1							0.0	
500																		
550																		
625																		
700																		
TOTAL						1	14	28	2	1							2.8	

TABLE VIII (Continued)

Mission 2 - Formation (Concluded)

MISSION		WEIGHT		ALTITUDE		N ²										TIME HOURS							
VE AIRSPEED		11000	20000	11000	20000	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0		3.8	4.6	5.4	6.6	7.8		
LESS																							
100																							0.0
150																							0.1
200																							1.5
250																							4.0
300																							1.1
350																							0.0
400																							
450																							
500																							
550																							
625																							
700																							
TOTAL																							6.7

MISSION		WEIGHT		ALTITUDE		N ²										TIME HOURS								
VE AIRSPEED		11000	30000	11000	30000	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0		3.8	4.6	5.4	6.6	7.8			
LESS																								
100																								0.0
150																								0.1
200																								0.5
250																								0.4
300																								0.0
350																								
400																								
450																								
500																								
550																								
625																								
700																								
TOTAL																								1.0

MISSION		WEIGHT		ALTITUDE		N ²										TIME HOURS								
VE AIRSPEED		11000	40000	11000	40000	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0		3.8	4.6	5.4	6.6	7.8			
LESS																								
100																								0.0
150																								0.0
200																								0.0
250																								0.0
300																								
350																								
400																								
450																								
500																								
550																								
625																								
700																								
TOTAL																								0.1

TABLE VIII (Continued)

Mission 3 - Nav & General

MISSION	3	WEIGHT		7000		ALTITUDE		LFSS										TIME HOURS
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
LESS																		
100																		0.0
150																		0.0
200							1											
250																		
300																		
350																		
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL							1											0.0

MISSION	3	WEIGHT		7000		ALTITUDE		1000										TIME HOURS
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
LESS																		
100																		
150							1	4										0.1
200																		0.0
250																		
300																		
350																		
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL							1	4										0.1

MISSION	3	WEIGHT		7000		ALTITUDE		2000										TIME HOURS
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
LESS																		
100																		
150																		
200							5	46	20	1								0.0
250							11	12	8	10	4							0.9
300							30	30	4	9	6	3						0.3
350																		0.4
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL							46	88	32	20	10	3						1.6

MISSION	3	WEIGHT		7000		ALTITUDE		5000										TIME HOURS
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
LESS																		
100																		
150																		
200																		0.0
250																		0.0
300																		
350																		
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL																		0.0

TABLE VIII (Continued)

Mission 3 - Nav & General (Continued)

MISSION	3	WEIGHT		8000		ALTITUDE		LFSS		TIME HOURS								
		-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ		2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8
VE AIRSPEED	LESS																	
100																		0.1
150																		1.0
200						2	92	3										0.6
250						3	105	4	2	1								0.1
300							4		2	1			2	1				0.1
350							2											
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL						5	203	7	4	2		2	1					1.7

MISSION	3	WEIGHT		8000		ALTITUDE		1000		TIME HOURS								
		-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ		2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8
VE AIRSPEED	LESS																	
100																		0.9
150																		8.2
200						43	586	53	2									4.3
250						56	281	11	5	5								0.7
300						24	83	5	2	2	1							0.1
350						4	4	1										0.0
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL						127	954	70	9	7	1							13.8

MISSION	3	WEIGHT		8000		ALTITUDE		2000		TIME HOURS								
		-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ		2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8
VE AIRSPEED	LESS																	
100																		0.7
150																		28.8
200																		47.2
250						1	120	1319	318	46	5							53.0
300						9	597	2854	314	582	212	48	2					3.7
350						1	50	3389	6800	1130	654	324	110	7				0.1
400						1	11	330	848	137	56	25	11	1				
450								3	9	4	1	2	3		1			
500																		
550																		
625																		
700																		
TOTAL						2	71	4441	11832	1003	1339	568	172	10	1			133.5

MISSION	3	WEIGHT		8000		ALTITUDE		5000		TIME HOURS								
		-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ		2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8
VE AIRSPEED	LESS																	
100																		0.3
150																		8.3
200						4	107	300	13	2								22.6
250						5	307	948	35	20	11	3						25.7
300						11	965	2321	145	59	17	10	2					3.2
350						4	200	414	55	6	11	1						0.2
400								21	50	10	1							0.0
450										2	1			1				
500																		
550																		
625																		
700																		
TOTAL						24	1601	4040	260	89	39	15	3					60.4

TABLE VIII (Continued)

Mission 3 - Nav & General (Continued)

MISSION	3	WEIGHT		8000				ALTITUDE				10000				TIME HOURS			
		LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6		5.4	6.6	7.8
LESS																			0.0
100																			0.0
150																			0.9
200																			7.5
250																			1.9
300																			0.1
350																			0.1
400																			0.0
450																			
500																			
550																			
625																			
700																			
TOTAL																			10.5

MISSION	3	WEIGHT		8000				ALTITUDE				15000				TIME HOURS			
		LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6		5.4	6.6	7.8
LESS																			0.0
100																			1.7
150																			8.1
200																			3.2
250																			0.3
300																			0.0
350																			0.0
400																			
450																			
500																			
550																			
625																			
700																			
TOTAL																			13.3

MISSION	3	WEIGHT		8000				ALTITUDE				20000				TIME HOURS			
		LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6		5.4	6.6	7.8
LESS																			0.1
100																			3.6
150																			16.3
200																			9.2
250																			0.7
300																			0.0
350																			
400																			
450																			
500																			
550																			
625																			
700																			
TOTAL																			30.0

MISSION	3	WEIGHT		8000				ALTITUDE				30000				TIME HOURS			
		LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6		5.4	6.6	7.8
LESS																			0.0
100																			1.2
150																			3.9
200																			1.5
250																			0.0
300																			
350																			
400																			
450																			
500																			
550																			
625																			
700																			
TOTAL																			6.7

TABLE VIII (Continued)

Mission 3 - Nav & General (Continued)

MISSION	3	WEIGHT		8000		ALTITUDE		40000		NZ								TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS	
LESS																		
100																	0.1	
150																	0.3	
200																	0.1	
250																		
300																		
350																		
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL																	0.5	

MISSION	3	WEIGHT		9000		ALTITUDE		LESS		NZ								TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS	
LESS																		
100																	0.0	
150																	0.5	
200						1	47	1									0.3	
250						4	99	1									0.0	
300							18										0.1	
350						9	10											
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL						14	174	2									0.9	

MISSION	3	WEIGHT		9000		ALTITUDE		1000		NZ								TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS	
LESS																		
100																	0.1	
150																	3.9	
200						5	37	307	7	5	1						3.5	
250							78	210	9	1	3						0.8	
300							13	86	2	1	1		1				0.2	
350							12	36	4		1						0.0	
400								3									0.0	
450																	0.0	
500										1							0.0	
550																	0.0	
625																		
700																		
TOTAL						5	141	642	22	8	5	2		1			8.5	

MISSION	3	WEIGHT		9000		ALTITUDE		2000		NZ								TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS	
LESS																		
100																	0.2	
150																	22.4	
200						1	7	451	2787	189	163	35	9				45.2	
250						2	22	778	2595	487	294	91	24	1			26.1	
300							2	163	1092	67	38	20	6				2.9	
350								2	9	1							0.0	
400								1	1								0.0	
450																		
500																		
550																		
625																		
700																		
TOTAL						3	33	1489	7221	830	502	146	39	1			96.8	

TABLE VIII (Continued)

Mission 3 - Nav & General (Continued)

MISSION	3	WEIGHT										TIME HOURS					
		9000		ALTITUDE 5000													
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8
LESS						1	7										0.2
100																	5.6
150				1		1	201	2									28.6
200					2	290	1211	26	17	17	11						27.2
250					11	561	2022	113	42	14	7	1					4.8
300						162	696	48	10	2	5		1				0.2
350						18	40	4	1	1							0.0
400							5		1				1				0.0
450							1	1	1								0.0
500																	0.0
550																	0.0
625																	0.0
700																	0.0
TOTAL				1	14	1099	4163	196	72	36	23	2	1				67.7

MISSION	3	WEIGHT										TIME HOURS					
		9000		ALTITUDE 10000													
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8
LESS																	0.0
100																	0.1
150																	1.4
200						7	21	7	1								11.7
250					2	85	187	14	4	3	7	1					5.0
300						55	120	18	7	6	14	12	3	1			0.8
350					1	11	19	3	4	3	13	18	16				0.5
400				1	2	9	9	4	4	1	13	26	18	3			0.2
450				1	1	6	6	5	8	4	12	10	7	4			0.1
500											3	3	1				0.1
550																	
625																	
700																	
TOTAL				1	6	173	362	47	28	17	62	70	45	9			19.7

MISSION	3	WEIGHT										TIME HOURS					
		9000		ALTITUDE 15000													
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8
LESS						15	19										0.1
100						5	44	5									0.4
150						1	19	49	7	4	4	2	2				3.5
200						9	138	189	50	24	26	36	20	3			16.6
250						7	99	211	69	57	59	121	70	30	2		11.0
300				1	4	23	44	19	27	54	129	80	32	7			3.0
350					1	4	12	7	6	7	23	60	41	12	1		1.1
400				1	1	3	3	1	2	5	16	3	1	1			0.3
450												1					0.0
500																	
550																	
625																	
700																	
TOTAL				3	26	314	566	157	121	171	365	216	78	11			36.1

MISSION	3	WEIGHT										TIME HOURS					
		9000		ALTITUDE 20000													
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8
LESS								2									0.0
100																	0.9
150						1	13	26	10	2	1						23.0
200					1	8	169	382	124	60	33	16	1				93.2
250					4	36	737	1843	576	342	180	122	17	2		1	61.7
300				1	2	32	583	1613	599	335	177	178	39	8	1		4.4
350					1	6	58	118	50	41	39	59	21	2			0.2
400							6	10	4	4	6	6	2				0.0
450																	
500																	
550																	
625																	
700																	
TOTAL				1	8	83	1566	3994	1363	784	436	381	80	12	1	1	183.4

TABLE VIII (Continued)

Mission 3 - Nav & General (Continued)

MISSION	3	WEIGHT		5000		ALTITUDE		30000									TIME	
VF AIRSPEED	LESS	-1.0	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
100																		0.0
150																		0.8
200																		28.5
250						2	13	243	693	284	135	45	8	1				88.1
300						6	30	764	2535	839	444	142	23	3				28.7
350			1	3	17	325	1086	341	170	39	11	2	1					0.2
400						3		5	3									
450																		
500																		
550																		
625																		
700																		
TOTAL			1	11	61	1349	4337	1483	757	226	43	6	1					146.4

MISSION	3	WEIGHT		9000		ALTITUDE		40000									TIME	
VF AIRSPEED	LESS	-1.0	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
100																		0.5
150																		3.8
200																		3.9
250						1	2	13	27	2	1							
300								7	23	1								
350																		
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL						1	22	50	4	1								10.2

MISSION	3	WEIGHT		10000		ALTITUDE		LFSS									TIME	
VF AIRSPEED	LESS	-1.0	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
100																		0.1
150																		0.0
200																		0.0
250																		0.0
300																		0.0
350																		
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL									7									0.1

MISSION	3	WEIGHT		10000		ALTITUDE		1000									TIME	
VF AIRSPEED	LESS	-1.0	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
100																		0.0
150																		0.8
200																		0.6
250																		0.2
300																		0.2
350																		0.0
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL							43	151	6	1	1							1.9

TABLE VIII (Continued)

Mission 3 - Nav & General (Continued)

MISSION	3	WEIGHT		10000		ALTITUDE		2000										TIME
VE AIRSPEED	LESS	-1.0	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS	
LESS																	0.0	
100																	0.0	
150						33	228	9	1								8.1	
200					1	110	593	66	39	3							17.0	
250					2	151	883	102	72	30	8						9.9	
300					2	71	478	27	15	6	1						1.7	
350						1	13	1									0.0	
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL						5	366	2595	205	127	39	9					36.8	

MISSION	3	WEIGHT		10000		ALTITUDE		5000										TIME
VE AIRSPEED	LESS	-1.0	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS	
LESS																	0.0	
100																	0.0	
150						1	25	43									4.1	
200					1	72	463	12	1								13.6	
250					4	276	1142	75	26	6							13.8	
300		1		1	1	100	552	29	15	3	1	1					5.4	
350				1	1	23	56	3	2	2							0.5	
400						8	27	1	1								0.2	
450																	0.0	
500																		
550																		
625																		
700																		
TOTAL		1		1	8	504	2283	120	45	13	1	1					37.6	

MISSION	3	WEIGHT		10000		ALTITUDE		10000										TIME
VE AIRSPEED	LESS	-1.0	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS	
LESS																	0.0	
100																	0.0	
150						1	8										0.3	
200						13	36		1								2.6	
250					1	52	194	12	8	1	4						9.6	
300						68	188	13	8	7	11	4	2				5.7	
350					2	46	110	13	5	5	12	9	6				2.0	
400					1	25	42	7	4	4	10	8	9	3			0.6	
450						5	5	1	1		3	3	3	1	1		0.1	
500					1				1								0.0	
550																		
625																		
700																		
TOTAL					5	220	563	46	27	18	40	22	20	4	1		21.0	

MISSION	3	WEIGHT		10000		ALTITUDE		15000										TIME
VE AIRSPEED	LESS	-1.0	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS	
LESS																	0.1	
100						35	20	1									0.1	
150						7	193	16	3								1.2	
200						19	191	21	7	2	1						5.7	
250					1	47	123	32	21	21	19	4	3				13.9	
300				1	2	58	149	52	34	23	40	25	11				9.6	
350					2	33	49	16	19	19	37	22	5	2			2.7	
400						8	14	3	8	5	10	12	6	1			0.9	
450						1	4		3	3	4	2	1	2			0.1	
500																	0.0	
550																		
625																		
700																		
TOTAL					1	5	205	743	141	65	73	111	66	26	5		34.2	

TABLE VIII (Continued)

Mission 3 - Nav & General (Continued)

MISSION	3	WEIGHT		ALTITUDE										TIME HOURS			
		10000	20000	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8						
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
LESS						1											0.0
100						10	6										0.1
150					5	22	51	6	2								1.1
200					5	124	358	125	71	18	5						22.7
250			1		24	476	1875	623	445	132	44	5	1				85.5
300			2		2	21	513	2044	649	403	130	68	11	1			72.3
350					2	72	195	71	44	23	9	3	1				7.1
400						1	6	2	3	2	1						0.2
450																	
500																	
550																	
625																	
700																	
TOTAL			3	3	57	1221	4535	1476	968	305	127	19	3				189.1

MISSION	3	WEIGHT		ALTITUDE										TIME HOURS			
		10000	30000	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8						
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
LESS						6											0.0
100						27	37	15	4								0.0
150					1	10	296	1069	395	193	43	4	1	1	1		2.3
200					1	4	29	887	3726	1154	629	144	16	1	2	3	51.2
250					3	13	358	1643	468	204	44	8					141.0
300							3	11	2	2							46.2
350																	0.4
400																	
450																	
500																	
550																	
625																	
700																	
TOTAL			1	8	54	1577	6486	2004	1032	231	28	2	3	4			241.1

MISSION	3	WEIGHT		ALTITUDE										TIME HOURS			
		10000	40000	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8						
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
LESS						1	1	1									0.3
100						9	7	3	2		1						5.5
150						10	7	3			2						4.3
200							1										0.0
250																	
300																	
350																	
400																	
450																	
500																	
550																	
625																	
700																	
TOTAL			1		1	20	16	7	2		3						10.2

MISSION	3	WEIGHT		ALTITUDE										TIME HOURS			
		11000	LESS	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8						
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
LESS						4	18		1								0.0
100						1	69		1								0.2
150						1	14	1	1		2						0.1
200						1	2	1	2	1	1						0.1
250																	
300																	
350																	
400																	
450																	
500																	
550																	
625																	
700																	
TOTAL						6	103	2	4	1	3						0.4

TABLE VIII (Continued)

Mission 3 - Nav & General (Continued)

MISSION	3	WEIGHT		ALTITUDE				NZ							TIME HOURS		
		11000	10000	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8			
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
LESS																	
100						17	61	1									0.2
150						40	107	1									1.5
200					1	28	286	11			1						1.9
250						22	124	5	3		1						0.4
300						1	1										0.0
350																	
400																	
450																	
500																	
550																	
625																	
700																	
TOTAL					1	106	579	16	4		2						4.0

MISSION	3	WEIGHT		ALTITUDE				NZ							TIME HOURS		
		11000	10000	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8			
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
LESS																	
100						18	63										0.6
150						117	208	3	2	1							4.1
200					5	258	883	62	18	5	1						10.7
250					8	388	1528	45	11	3							9.3
300					7	99	191	32	6	1							0.5
350						1	2										0.0
400																	
450																	
500																	
550																	
625																	
700																	
TOTAL					20	881	2875	142	37	10	1						25.3

MISSION	3	WEIGHT		ALTITUDE				NZ							TIME HOURS		
		11000	10000	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8			
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
LESS																	
100						1	8										0.1
150						13	37	1									1.0
200					3	143	783	36	10	1							13.8
250					1	6	291	1524	83	9	3						19.8
300					2	2	51	115	14	2	1						0.8
350							3	8			1						0.1
400							2										0.0
450																	
500																	
550																	
625																	
700																	
TOTAL					1	11	504	2475	134	21	6						35.6

MISSION	3	WEIGHT		ALTITUDE				NZ							TIME HOURS		
		11000	10000	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8			
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
LESS																	
100						3	10										0.0
150						60	82	2	2	1							0.4
200						1	127	273	9	2	1						7.0
250						3	49	154	6	2	1						15.4
300						2	10	31	2	2	2				1		4.1
350								1	2								0.5
400																	0.0
450																	
500																	
550																	
625																	
700																	
TOTAL					6	258	551	21	8	6	1	1					27.4

TABLE VIII (Continued)

Mission 3 - Nav & General (Continued)

MISSION		WEIGHT		ALTITUDE		N2										TIME HOURS						
3		11000		15000		-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0		3.8	4.6	5.4	6.6	7.8	
VF AIRSPEED	LESS																					
	100																					0.0
	150																					0.4
	200																					5.4
	250																					12.0
	300																					4.7
	350																					0.3
	400																					0.0
	450																					
	500																					
	550																					
	625																					
	700																					
	TOTAL																					22.9

MISSION		WEIGHT		ALTITUDE		N2										TIME HOURS						
3		11000		20000		-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0		3.8	4.6	5.4	6.6	7.8	
VF AIRSPEED	LESS																					
	100																					0.0
	150																					0.0
	200																					1.7
	250																					16.4
	300																					30.1
	350																					7.2
	400																					0.1
	450																					
	500																					
	550																					
	625																					
	700																					
	TOTAL																					53.4

MISSION		WEIGHT		ALTITUDE		N2										TIME HOURS						
3		11000		30000		-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0		3.8	4.6	5.4	6.6	7.8	
VF AIRSPEED	LESS																					
	100																					0.0
	150																					0.0
	200																					1.6
	250																					7.7
	300																					4.8
	350																					0.1
	400																					
	450																					
	500																					
	550																					
	625																					
	700																					
	TOTAL																					14.2

MISSION		WEIGHT		ALTITUDE		N2										TIME HOURS						
3		11000		40000		-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0		3.8	4.6	5.4	6.6	7.8	
VF AIRSPEED	LESS																					
	100																					0.0
	150																					0.3
	200																					0.3
	250																					0.0
	300																					
	350																					
	400																					
	450																					
	500																					
	550																					
	625																					
	700																					
	TOTAL																					0.6

TABLE VIII (Continued)

Mission 4 - Administrative

MISSION	4	WEIGHT		7000		ALTITUDE		LFSS		NZ								TIME HOURS
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8		
LESS																	0.0	
100																	0.0	
150								3										
200																		
250																		
300																		
350																		
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL								3									0.0	

MISSION	4	WEIGHT		7000		ALTITUDE		1000		NZ								TIME HOURS
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8		
LESS																	0.0	
100																		
150																		
200																		
250																		
300																		
350																		
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL																	0.0	

MISSION	4	WEIGHT		7000		ALTITUDE		LFSS		NZ								TIME HOURS
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8		
LESS																	0.0	
100																	0.1	
150								3	1								0.0	
200						1			1	1							0.0	
250																	0.0	
300																	0.0	
350																		
400																		
450																		
500																		
550																		
625																		
700						1	3	2	1	1							0.1	
TOTAL						1	3	2	1	1							0.1	

MISSION	4	WEIGHT		7000		ALTITUDE		1000		NZ								TIME HOURS
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8		
LESS																	0.0	
100																	0.4	
150																	0.2	
200						2	19	1	1								0.0	
250						2	6	1									0.0	
300							1											
350																		
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL						4	26	2	1								0.6	

TABLE VIII (Continued)

Mission 4 - Administrative (Continued)

MISSION	4	WEIGHT										TIME HOURS						
		#000	ALTIUDE	2000														
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
100																		0.0
150																		1.2
200						4	44	1A	1									1.8
250						29	110	11	20			8	1					2.0
300						49	167	34	28		12		6					2.0
350						2	20	3	1									0.1
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL						104	361	64	50	20	7							5.1

MISSION	4	WEIGHT										TIME HOURS							
		#000	ALTIUDE	5000															
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8		
100																			0.0
150																			0.4
200						1	32												0.8
250						11	42	7	2	2									1.0
300					2	27	69	10	8	2									0.2
350						4	15	1											1.0
400						1	3												0.2
450																			0.0
500						1	4												0.0
550						2	15	1											0.0
625																			0.0
700																			0.0
TOTAL					2	47	180	19	10	5									2.5

MISSION	4	WEIGHT										TIME HOURS							
		#000	ALTIUDE	10000															
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8		
100																			0.0
150																			0.1
200																			0.3
250																			0.1
300						1	3												0.0
350							1	1	1										0.0
400																			0.0
450																			0.0
500																			0.0
550																			0.0
625																			0.0
700																			0.0
TOTAL						1	4	1											0.5

MISSION	4	WEIGHT										TIME HOURS							
		#000	ALTIUDE	15000															
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8		
100																			0.0
150																			0.2
200																			0.2
250																			0.1
300							1	1	1										0.0
350																			0.1
400																			0.0
450																			0.0
500																			0.0
550																			0.0
625																			0.0
700																			0.0
TOTAL						1	2	1											0.5

TABLE VIII (Continued)

Mission 4 - Administrative (Continued)

MISSION		WEIGHT		ALTITUDE		TIME												
VE AIRSPEED		8000	20000	HOURS														
LESS		-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
100																		0.0
150																		0.7
200																		0.6
250																		0.3
300																		0.0
350																		0.0
400					1	1			1									0.0
450																		
500																		
550																		
625																		
700																		
TOTAL					1	1	11		1									1.1

MISSION		WEIGHT		ALTITUDE		TIME												
VE AIRSPEED		8000	30000	HOURS														
LESS		-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
100																		0.0
150																		0.1
200																		0.0
250																		
300							1											
350																		
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL							1											0.1

MISSION		WEIGHT		ALTITUDE		TIME												
VE AIRSPEED		8000	40000	HOURS														
LESS		-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
100																		0.0
150																		0.1
200																		0.0
250																		
300																		
350																		
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL																		0.1

MISSION		WEIGHT		ALTITUDE		TIME												
VE AIRSPEED		9000	LESS	HOURS														
LESS		-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
100																		0.0
150																		0.0
200																		0.0
250																		0.0
300							1											0.0
350																		0.0
400																		0.0
450																		
500																		
550																		
625																		
700																		
TOTAL							1											0.1

TABLE VIII (Continued)

Mission 4 - Administrative (Continued)

MISSION		WEIGHT		9000		ALTITUDE		1000												TIME HOURS
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8			
100																		0.0		
150																		0.4		
200						1												0.3		
250						2	13	2										0.0		
300						1	5	1										0.0		
350																				
400																				
450																				
500																				
550																				
625																				
700																				
TOTAL						4	18	3										0.7		

MISSION		WEIGHT		9000		ALTITUDE		2000												TIME HOURS
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8			
100																		0.0		
150																		1.5		
200						1	8	75	31									2.3		
250						2	33	115	23	28	11							3.0		
300						4	160	265	43	36	11	5						0.3		
350						2	31	45	4	4	3	2						0.0		
400						2	11	76	2									0.0		
450								4		2								0.0		
500									1	2								0.0		
550										1								0.0		
625																		0.0		
700																		0.0		
TOTAL						9	243	530	104	71	25	7						7.2		

MISSION		WEIGHT		9000		ALTITUDE		5000												TIME HOURS
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8			
100																		0.0		
150																		0.6		
200																		1.8		
250							3	14										3.0		
300						2	21	64	3	3	2							0.6		
350						2	98	192	27	3	2							1.8		
400						1	22	34	8	3	2							0.6		
450						1	8	21	5	1	2	3						0.1		
500						1	9	21	10	7	1	1	1					0.1		
550							14	19	1	1	1	1	1					0.1		
625								5								1		0.1		
700																		0.0		
TOTAL						6	176	370	54	18	10	7	5	1				6.2		

MISSION		WEIGHT		9000		ALTITUDE		10000												TIME HOURS
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8			
100																		0.0		
150																		0.2		
200																		0.8		
250																		1.4		
300						1												0.7		
350						1												0.3		
400						1												0.2		
450																		0.1		
500																		0.0		
550																		0.0		
625																		0.0		
700																		0.0		
TOTAL						1	2	3	43	80	42	10	11	26	27	8	1	3.7		

TABLE VIII (Continued)

Mission 4 - Administrative (Continued)

MISSION	4	WEIGHT		9000		ALTITUDE		15000		TIME HOURS							
		WEIGHT	9000	ALTITUDE	15000	WEIGHT	9000	ALTITUDE	15000								
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ 2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
LESS																	
100						6	1										0.0
150																	0.0
200						4	1	1	2								0.4
250					2	8	6	2	3	2	2	2					1.1
300						2	7	3	3	4	4	4	2				0.5
350					1	6	9	4	4	5	5	3	3				0.2
400					1	6	10	2	1	1	1	3	1	1			0.1
450						2	3	1	1								0.0
500																	0.0
550																	
625																	
700																	
TOTAL						4	34	37	13	13	12	12	12	6	1		2.4

MISSION	4	WEIGHT		9000		ALTITUDE		20000		TIME HOURS							
		WEIGHT	9000	ALTITUDE	20000	WEIGHT	9000	ALTITUDE	20000								
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ 2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
LESS																	
100						5	2										0.0
150						7	10	4									0.1
200					2	4	12	16	4	1							1.0
250						19	32	14	8	4	3	1	1				3.5
300					2	12	20	7	7	5	5	2	1				2.2
350					1	2	5	1	1	1	2	1	1				0.2
400							1										0.0
450																	0.0
500																	
550																	
625																	
700																	
TOTAL						5	49	82	42	20	11	10	4	3			7.0

MISSION	4	WEIGHT		9000		ALTITUDE		30000		TIME HOURS							
		WEIGHT	9000	ALTITUDE	30000	WEIGHT	9000	ALTITUDE	30000								
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ 2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
LESS																	
100																	0.0
150																	1.0
200						1	2	2									3.1
250							2		1								0.8
300					1	1		1	1	1	1						0.0
350																	
400																	
450																	
500																	
550																	
625																	
700																	
TOTAL						2	5	15	1	2	1	1					4.8

MISSION	4	WEIGHT		9000		ALTITUDE		40000		TIME HOURS							
		WEIGHT	9000	ALTITUDE	40000	WEIGHT	9000	ALTITUDE	40000								
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ 2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
LESS																	
100																	0.0
150																	0.7
200																	0.6
250						1	1										
300																	
350																	
400																	
450																	
500																	
550																	
625																	
700																	
TOTAL						1	1										1.3

TABLE VIII (Continued)

Mission 4 - Administrative (Continued)

MISSION	4	WEIGHT		10000		ALTITUDE		1000		NZ								TIME HOURS
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8		
100																		
150																		
200																		
250																		
300																		
350																	0.0	
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL																	0.0	

MISSION	4	WEIGHT		10000		ALTITUDE		1000		NZ								TIME HOURS
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8		
100																		
150																		
200								2	1								0.0	
250																	0.1	
300																	0.0	
350																	0.0	
400																	0.0	
450																	0.0	
500																	0.0	
550																	0.0	
625																	0.0	
700																	0.0	
TOTAL							2		1								0.2	

MISSION	4	WEIGHT		10000		ALTITUDE		2000		NZ								TIME HOURS
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8		
100																		
150																		
200																		
250								6	7								0.3	
300					2	12	56	5	2	1	2						0.9	
350						23	79	18	9	7							1.1	
400						11	36	2	1	1	1						1.1	
450						6	20		1								0.2	
500																	0.0	
550																		
625																		
700																		
TOTAL					2	52	167	27	13	9	3						2.5	

MISSION	4	WEIGHT		10000		ALTITUDE		5000		NZ								TIME HOURS
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8		
100																		
150																		
200																		
250						2	8											
300		1				22	58	11	6	1							0.4	
350		2			1	44	101	25	3	4	2						1.5	
400					2	43	123	17	8	5							1.7	
450					1	22	44	15	5	6	1						1.2	
500					1	18	21	5	5	2	6	1					0.2	
550					2	21	32	7	2		4	4	1				0.1	
625							3	1		1	1	1					0.1	
700							2	2									0.0	
TOTAL		3			7	172	392	83	31	16	16	12	3				5.2	

TABLE VIII (Continued)

Mission 4 - Administrative (Continued)

MISSION	WEIGHT 10000														TIME HOURS				
	VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8		4.6	5.4	6.6	7.8
LESS						12	5												0.1
100						11	29	8	1										0.7
150						17	29	6	9	3	1								1.2
200				1		23	55	17	13	5	13								1.5
250	1		1			1	21	45	21	9	10	12							1.1
300		2				3	12	14	7	6	3	9	20		5	1			0.8
350						2	13	15	4	1	3	3	11	9					0.4
400						1	15	9	5	4	5	2	2	2					0.2
450							3	3	2	2	1	1							0.1
500																			
550																			
625																			
700																			
TOTAL	1	2	1	1	8	127	204	70	51	29	39	49	18	2					6.0

MISSION	WEIGHT 10000														TIME HOURS				
	VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8		4.6	5.4	6.6	7.8
LESS						1	100	25											0.2
100						33	108	25	2										0.6
150						6	14	10	3										0.8
200			1			2	8	4	6	2	2	3		1					0.9
250		2				1	3	7	5	4	6	8	12	4					0.7
300		1	2	1		1	9	8	6	5	1	11	5	5		2			0.4
350		1				1	11	9	7	4	1	6	6	1					0.2
400		1				2	5	1	1			2		1					0.1
450																			0.0
500																			0.0
550																			
625																			
700																			
TOTAL		5	3	1	5	166	184	59	25	10	30	26	12	2					4.0

MISSION	WEIGHT 10000														TIME HOURS				
	VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8		4.6	5.4	6.6	7.8
LESS						6	411	56	1										0.0
100						8	149	248	32	2									0.6
150						1	23	43	24	10	2	1							0.8
200		1	1	1		2	24	73	26	22	9	4	1						2.6
250		5	4	2		2	26	50	17	18	14	7	2						4.7
300	1	6	3			1	11	16	9	4	5	5	1			2			3.9
350		1	1			1	11	16	9	4	5	5	1						1.1
400							3	3	1			1							0.1
450																			
500																			
550																			
625																			
700																			
TOTAL		13	9	3	20	645	489	110	56	30	18	4		2					13.8

MISSION	WEIGHT 10000														TIME HOURS				
	VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8		4.6	5.4	6.6	7.8
LESS						1													0.0
100						1	27	3											0.1
150						34	16	8											0.2
200		2	3			1	60	49	15	5	2	1							3.1
250		4	2	1		4	38	80	30	11	7	3							7.6
300		1	1	1		1	20	35	18	19	12	10							2.1
350							7	5	4	10	8	10							0.2
400								1	1	1									0.0
450														1					0.0
500																			
550																			
625																			
700																			
TOTAL		7	6	2	7	187	159	76	46	29	25								13.4

TABLE VIII (Continued)

Mission 4 - Administrative (Continued)

MISSION	4	WEIGHT 10000										ALTITUDE 40000										TIME HOURS
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2 2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8						
LESS																	0.0					
100																	0.1					
150																	1.8					
200		1				3	2										1.5					
250		2	1		2	19	14	3									0.1					
300		1	1			24	8	9	3													
350					1	12	5	5	1													
400																						
450																						
500																						
550																						
625																						
700																						
TOTAL		4	2		3	58	29	17	4								3.5					

MISSION	4	WEIGHT 10000										ALTITUDE 50000										TIME HOURS
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2 2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8						
LESS																	0.0					
100																	0.0					
150																	0.0					
200																	0.0					
250																						
300																						
350																						
400																						
450																						
500																						
550																						
625																						
700																						
TOTAL																	0.0					

MISSION	4	WEIGHT 11000										ALTITUDE LFSS										TIME HOURS
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2 2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8						
LESS																	0.0					
100																	0.0					
150							4										0.0					
200							6										0.0					
250							5										0.0					
300							2	2		1							0.0					
350																						
400																						
450																						
500																						
550																						
625																						
700																						
TOTAL							17	2		1							0.0					

MISSION	4	WEIGHT 11000										ALTITUDE 1000										TIME HOURS
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2 2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8						
LESS																	0.0					
100																	0.1					
150							4										0.1					
200						1	6										0.1					
250						1	18										0.1					
300							12	1									0.1					
350																						
400																						
450																						
500																						
550																						
625																						
700																						
TOTAL						2	40	1									0.3					

TABLE VIII (Continued)

Mission 4 - Administrative (Continued)

MISSION	4	WEIGHT											ALTITUDE			2500		
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
100																		0.0
150																		0.2
200																		0.8
250						2	27	60	6									0.7
300							21	87	9	1								0.0
350							2	2										0.0
400																		0.0
450																		0.0
500									2									0.0
550																		0.0
625																		0.0
700																		0.0
TOTAL						2	54	160	17	1								1.8

MISSION	4	WEIGHT											ALTITUDE			5000		
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
100																		0.2
150																		1.0
200								3	1									1.5
250						5	62	1	2			2						0.1
300						19	110	9	4			2	1					0.0
350						1	10	3	1									0.0
400						1	3											0.0
450							1	1	1	1	1	2						0.0
500						2	1	1	1									0.0
550																		0.0
625																		0.0
700																		0.0
TOTAL						28	190	16	8	1	6	1						2.9

MISSION	4	WEIGHT											ALTITUDE			10000		
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
100							3	10										0.0
150							5	31	20									0.0
200								3	3	1								0.1
250							3	5				1	1					0.4
300				1			15	8	3				2					0.7
350							3	14	7	2		1		1				0.5
400							2	7	5			1	1					0.2
450							1	2	1			1	1					0.0
500									1									0.0
550																		0.0
625																		0.0
700																		0.0
TOTAL				1		1	32	60	40	3	4	5	2					1.8

MISSION	4	WEIGHT											ALTITUDE			15000		
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
100																		0.0
150							8											0.0
200								4										0.0
250								1										0.0
300								2										0.2
350							3	3	1									0.5
400							2	3	1	1								0.3
450						1	1	8	1									0.1
500							2	6	2	1								0.1
550																		0.1
625																		0.1
700																		0.1
TOTAL						1	16	27	5	2								1.2

TABLE VIII (Continued)

Mission 4 - Administrative (Concluded)

MISSION	4	WEIGHT				ALTITUDE				20000				TIME HOURS				
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
LESS																		0.0
100						11	4											0.0
150						1	18	2										0.0
200						2	3	2										0.1
250						3	3		1									0.5
300						11	16	1	1	1	2							1.5
350						6	15	1	1	1	1							0.6
400							4											0.1
450																		0.0
500																		0.0
550																		0.0
625																		0.0
700																		0.0
TOTAL						34	63	6	3	2	3							2.6

MISSION	4	WEIGHT				ALTITUDE				30000				TIME HOURS				
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
LESS																		0.0
100																		0.0
150						1	1											0.4
200						10	8	1	1	1								1.2
250		1		1	2	9	16	6	5	4	1	1						0.7
300		2	1	1	1	5	7	9	3	6	6	2		1				0.1
350						3	2	2	4	4	7			1				0.0
400											1							0.0
450																		0.0
500																		0.0
550																		0.0
625																		0.0
700																		0.0
TOTAL		1	7	1	3	4	28	34	19	13	15	15	3	2				2.3

MISSION	4	WEIGHT				ALTITUDE				40000				TIME HOURS				
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
LESS																		0.0
100																		0.1
150						2	1	1										0.9
200						16	13	6	1			1						0.8
250		2	2		1	11	12	13	2	1	1							0.1
300		1	1	1		12	8	5	3			1						0.0
350																		0.0
400																		0.0
450																		0.0
500																		0.0
550																		0.0
625																		0.0
700																		0.0
TOTAL		3	3	3	1	41	34	25	6	1	3							1.9

TABLE VIII (Continued)

b. T-38 LTF

Mission 1 - Training

MISSION	1	WEIGHT		7000		ALTITUDE		1000		N2								TIME HOURS
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8		
LESS																		
100																		
150																		
200							1	3									0.0	
250																		
300																		
350																		
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL							1	3									0.0	

MISSION	1	WEIGHT		8000		ALTITUDE		LESS		N2								TIME HOURS
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8		
LESS																		
100																		
150																		
200							7	43	5								0.0	
250							16	10	1								0.5	
300							2	5		1							0.3	
350																	0.1	
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL							25	58	6	1							0.9	

MISSION	1	WEIGHT		8000		ALTITUDE		1000		N2								TIME HOURS
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8		
LESS																		
100																		
150																		
200							2	19	118	5							0.0	
250							45	52	14	21		2					1.2	
300							3	171	118	57	34	7	1				1.5	
350							17	13	5	3							1.7	
400																	0.1	
450																		
500																		
550																		
625																		
700																		
TOTAL							5	252	301	84	58	7	3				4.5	

MISSION	1	WEIGHT		8000		ALTITUDE		2000		N2								TIME HOURS
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8		
LESS																		
100																		
150																		
200																		
250							5	92	29	2							0.9	
300							70	135	34	53	16	4					2.2	
350							4	268	373	95	91	37	8	1			3.6	
400								45	67	12	8	2					0.3	
450																		
500																		
550																		
625																		
700																		
TOTAL							4	388	657	171	154	55	12	1			7.1	

TABLE VIII (Continued)

Mission 1 - Training (Continued)

MISSION		WEIGHT		8000		ALTITUDE		5000		NZ										TIME
VE AIRSPEED		-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS			
LESS																				
100																				
150																				
200						7	10	1									0.2			
250						13	24	1				1					0.3			
300						36	73	8	1								1.0			
350							9				2	1					0.1			
400								1									0.0			
450																	0.0			
500																	0.0			
550																	0.0			
625																	0.0			
700																	0.0			
TOTAL						96	116	11	1	2	2						1.6			

MISSION		WEIGHT		8000		ALTITUDE		10000		NZ										TIME
VE AIRSPEED		-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS			
LESS																				
100																				
150																				
200						2	16			1							0.0			
250							3										0.1			
300						4	6	2	1		2	1					0.1			
350						2					1						0.3			
400		1					1										0.2			
450																	0.0			
500												1					0.0			
550																	0.0			
625																	0.0			
700																	0.0			
TOTAL		1				8	36	2	2	1	3	3	3				0.6			

MISSION		WEIGHT		8000		ALTITUDE		15000		NZ										TIME
VE AIRSPEED		-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS			
LESS																				
100																				
150							10	5									0.0			
200								2	1								0.0			
250						1	1	1									0.0			
300						1	3	3	1	1	1			1			0.0			
350						3	6	6	1	1	2						0.3			
400										2							0.3			
450											1						0.1			
500													2		1		0.0			
550																	0.0			
625																	0.0			
700																	0.0			
TOTAL						1	15	20	2	4	2		2				0.7			

MISSION		WEIGHT		8000		ALTITUDE		20000		NZ										TIME
VE AIRSPEED		-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS			
LESS																				
100																				
150																				
200						2	6										0.0			
250						4	27										0.1			
300						3	13	1	1	1	1						0.6			
350										2	3	3	2				0.7			
400							1										0.7			
450																	0.0			
500																	0.0			
550																	0.0			
625																	0.0			
700																	0.0			
TOTAL						9	47	1	3	4	4	2					1.4			

TABLE VIII (Continued)

Mission 1 - Training (Continued)

MISSION	VE AIRSPEED	WEIGHT	ALTITUDE										TIME HOURS					
			9000	1000		2000		3000		4000		5000						
	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
100																		0.0
150						21	100	8										1.3
200						69	48	1			6	6						2.0
250						13	32	4	7			1						0.3
300							4		1									0.0
350																		
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL						103	184	13	8	6	7							3.7

MISSION	VE AIRSPEED	WEIGHT	ALTITUDE										TIME HOURS					
			9000	1000		2000		3000		4000		5000						
	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
100																		0.0
150						1	26	150	23	1	1	1						1.9
200						1	63	80	71	67	8	1						3.6
250						1	338	308	214	161	24	7						6.2
300						1	16	21	6	4	2	2						0.1
350																		
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL						4	443	559	315	233	35	11						11.8

MISSION	VE AIRSPEED	WEIGHT	ALTITUDE										TIME HOURS					
			9000	1000		2000		3000		4000		5000						
	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
100																		0.0
150						1		15	110	23								1.2
200						1		66	112	68	61	9	1					3.3
250						6		306	369	173	131	35	8	1				6.4
300								40	58	12	5	2	2					0.5
350									2									0.0
400									1	2				1				0.0
450									1	2								0.0
500																		0.0
550																		0.0
625																		0.0
700																		0.0
TOTAL						1	8	429	654	278	197	46	11	2				11.5

MISSION	VE AIRSPEED	WEIGHT	ALTITUDE										TIME HOURS					
			9000	1000		2000		3000		4000		5000						
	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
100																		0.3
150									15	9	1							0.9
200						1		23	36	1			22					3.1
250								53	105	8	6	1	8					0.4
300								3	24	2	3	1		1	1			0.0
350																		0.0
400								1	1				2					0.0
450								2				1	2		1			0.1
500												1						0.0
550																		0.0
625																		0.0
700																		0.0
TOTAL						1	97	175	14	9	4	34	2	3				4.9

TABLE VIII (Continued)

Mission 1 - Training (Continued)

MISSION	1	WEIGHT													TIME HOURS			
		9000	ALTITUDE															
VE AIRSPEED	1	F55	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8
LESS																		
100						2	17											0.0
150						1	29	1	1									0.1
200						3	4	5	1	3	1							0.4
250					1	23	43	16	4	5	4	2						2.0
300						15	35	8	4	5	6	6	3					0.8
350					1	4	11	9	1	3	7	8	7	1				0.2
400						5	2	6	2	3	5	9	8	2				0.2
450					1	3	1	1	1	4	3	2	2	1				0.1
500							1					1						0.0
550													1					
625																		
700																		
TOTAL					3	56	143	44	14	24	26	30	21	4				3.6

MISSION	1	WEIGHT													TIME HOURS			
		9000	ALTITUDE															
VE AIRSPEED	1	F55	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8
LESS																		
100							88	7										0.1
150						1	21	53	16									0.5
200					2	12	21	10	3	3	3							0.8
250						15	37	22	7	7	11	5	2					2.1
300					3	20	61	21	10	14	29	27	13	1				2.1
350			1			11	5	7	5	8	26	23	19	5				0.7
400						5	4	2	1	5	14	12	13	4				0.3
450						3	2	1		2	7	3	2					0.1
500											1							0.0
550																		
625																		
700																		
TOTAL		1			6	175	190	79	26	39	91	70	49	10				6.6

MISSION	1	WEIGHT													TIME HOURS			
		9000	ALTITUDE															
VE AIRSPEED	1	F55	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8
LESS																		
100					1	1	8											0.0
150					1	1	10	10	1									0.0
200						5	27	39	21	10	4	1	1					0.1
250					2	4	98	188	63	24	11	12	7					1.4
300					2	2	58	160	47	35	13	26	11	1				5.8
350					1	1	8	15	5	7	8	12	5					4.6
400							1	1			2	1						0.4
450																		0.0
500																		
550																		
625																		
700																		
TOTAL					7	14	210	413	137	76	36	53	25	1				12.4

MISSION	1	WEIGHT													TIME HOURS			
		9000	ALTITUDE															
VE AIRSPEED	1	F55	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8
LESS																		
100									1									0.0
150									6	1	1							0.0
200								4	10	8	2	1						0.3
250					1	1	12	43	15	8	2	1						0.9
300					1	2	4	24	6	4	1	1						0.4
350								1										0.0
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL					1	3	20	78	28	13	4	2						1.6

TABLE VIII (Continued)

Mission 1 - Training (Continued)

MISSION VF AIRSPEED	1	WEIGHT		10000		ALTITUDE		LESS		NZ								TIME HOURS
		LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
LESS																		
100																		
150																		0.4
200								2	30	3								0.9
250								16	17	2	1							0.2
300								9	13	5	1							0.0
350								1	1	1								
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL								28	61	11	2							1.5

MISSION VF AIRSPEED	1	WEIGHT		10000		ALTITUDE		1000		NZ								TIME HOURS
		LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
LESS																		
100																		
150																		0.7
200								9	50	11								1.7
250								16	32	38	15	4						3.9
300							4	144	150	140	72	14	5					0.2
350								4	32	4	3	3	2					
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL							4	173	264	193	90	21	7					6.4

MISSION VF AIRSPEED	1	WEIGHT		10000		ALTITUDE		2000		NZ								TIME HOURS
		LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
LESS																		
100																		
150																		0.2
200								2	12	1								0.6
250								1	11	24	14	9	2					2.5
300								3	85	119	41	47	3	2				0.2
350									6	12	1	3	1					
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL							4	104	167	57	59	6	2					3.5

MISSION VF AIRSPEED	1	WEIGHT		10000		ALTITUDE		5000		NZ								TIME HOURS
		LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
LESS																		
100																		0.0
150																		0.3
200																		2.2
250																		0.6
300																		0.1
350																		0.1
400																		0.1
450																		0.1
500																		0.0
550																		
625																		
700																		
TOTAL							2	25	63	12	9	3	3	7	9	3		3.5

TABLE VIII (Continued)

Mission 1 - Training (Continued)

MISSION	1	WEIGHT										TIME HOURS						
		10000 ALTITUDE 10000																
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
100						5	10											0.0
150						1	1	53	14									0.0
200									3									0.0
250										2								0.0
300					1	1	10	36	14	2		1						0.4
350									12	14	13							0.5
400									18	16	28	30	27					2.2
450									17	15	29	33	23	5				1.9
500									13	11	23	35	21	6				1.3
550									9	4	10	7	5	4		2		0.9
625											1	3	1					0.3
700																		0.0
TOTAL					1	10	79	144	73	71	62	105	117	82	16	3		7.5

MISSION	1	WEIGHT										TIME HOURS							
		10000 ALTITUDE 15000																	
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.0		
100						67	10											0.2	
150						4	41	139	37	1								1.6	
200						3	55	59	71	1								2.4	
250										16	11	8	1					4.1	
300										41	46	15	8					3.6	
350										40	27	49	41	41	2			1.1	
400										15	33	26	7	4				0.3	
450										5	2	9	14	7	1			0.0	
500										1	1	3	2	1				0.0	
550												1						0.0	
625																		0.0	
700																		0.0	
TOTAL						1	1	4	25	279	407	224	132	97	149	99	64	7	13.4

MISSION	1	WEIGHT										TIME HOURS							
		10000 ALTITUDE 20000																	
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8		
100						2	14	2											0.1
150						8	26	24	4	2									0.5
200																			3.2
250																			9.5
300																			7.9
350																			0.9
400																			0.0
450																			0.0
500																			0.0
550																			0.0
625																			0.0
700																			0.0
TOTAL						1	1	33	274	543	206	131	65	63	8	5			22.2

MISSION	1	WEIGHT										TIME HOURS							
		10000 ALTITUDE 30000																	
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8		
100						1	1												0.0
150						6	23	9	3	1	1								0.0
200																			0.9
250																			3.3
300																			1.6
350																			0.0
400																			0.0
450																			0.0
500																			0.0
550																			0.0
625																			0.0
700																			0.0
TOTAL						2	37	176	62	28	8	6	2						5.8

TABLE VIII (Continued)

Mission 1 - Training (Continued)

MISSION	1	WEIGHT										TIME HOURS								
		10000	ALTITUDE 40000																	
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ			2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
100																				
150																				
200																				
250																				0.1
300																				0.1
350																				0.0
400																				
450																				
500																				
550																				
625																				
700																				
TOTAL										4	3				1					0.1

MISSION	1	WEIGHT										TIME HOURS								
		11000	ALTITUDE 10000																	
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ			2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
100																				
150																				
200																				0.1
250																				0.4
300																				0.2
350																				0.0
400																				
450																				
500																				
550																				
625																				
700																				
TOTAL										21	61	7	1							0.7

MISSION	1	WEIGHT										TIME HOURS								
		11000	ALTITUDE 1000																	
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ			2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
100																				
150																				
200																				0.2
250																				0.6
300																				1.4
350																				0.1
400																				
450																				
500																				
550																				
625																				
700																				
TOTAL										3	49	147	56	23	1					2.4

MISSION	1	WEIGHT										TIME HOURS								
		11000	ALTITUDE 2000																	
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ			2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
100																				
150																				
200																				0.1
250																				0.4
300																				1.1
350																				0.8
400																				0.0
450																				
500																				
550																				
625																				
700																				
TOTAL										1	66	99	21	12	3					2.3

TABLE VIII (Continued)

Mission 1 - Training (Continued)

MISSION	1	WEIGHT										TIME HOURS					
		11000	ALTITUDE														
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8
LESS																	
100																	0.1
150						1											0.3
200						1	5	3	1								0.9
250						1	5	9	3			1					1.2
300							12	42	3	1	1						0.0
350												1					0.0
400												1	1				0.0
450																	0.0
500																	0.0
550																	0.0
625																	0.0
700																	0.0
TOTAL						3	22	54	7	1	1	3	1				2.5

MISSION	1	WEIGHT										TIME HOURS					
		11000	ALTITUDE														
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8
LESS																	
100																	0.0
150				1													0.0
200																	0.0
250						1	1	3	3		1						0.3
300						1	22	19	3	2	2	1					1.3
350							32	21	10	6	7	9	3	3			1.8
400						3	6	14	6	3	3	7	8	3			0.5
450							3	1	2	2	2	5			1		0.1
500										1	1						0.0
550																	0.0
625																	0.0
700																	0.0
TOTAL				1	4	64	58	24	14	14	19	17	6	1			4.1

MISSION	1	WEIGHT										TIME HOURS					
		11000	ALTITUDE														
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8
LESS																	
100																	0.0
150																	0.0
200																	0.1
250																	0.5
300						1	12	21	10	10	6	4		1			1.7
350							25	18	10	3	3	4	1	3			1.5
400							6	4	3		2	1					0.5
450							4	2			1	1	1				0.0
500							3	1									0.0
550																	0.0
625																	0.0
700																	0.0
TOTAL					3	56	55	34	16	14	10	2	4				4.3

MISSION	1	WEIGHT										TIME HOURS					
		11000	ALTITUDE														
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8
LESS																	
100																	0.0
150								1									0.1
200							5	10	7								0.5
250							18	18	12	3			1				2.1
300						1	25	24	8	5		1	1				2.4
350							3	8	3	1	1	1	1				0.5
400							1										0.0
450																	0.0
500																	0.0
550																	0.0
625																	0.0
700																	0.0
TOTAL						1	59	61	30	9	1	2	2				5.5

TABLE VIII (Continued)

Mission 1 - Training (Concluded)

VE AIRSPEED	MISSION														TIME HOURS		
	WEIGHT	11000	ALTITUDE				40000										
LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
100																	0.0
150																	0.1
200						1	4	7	2								0.3
250						3	4	2			1	1	1				0.2
300												2					0.0
350																	
400																	
450																	
500																	
550																	
625																	
700																	
TOTAL					1	8	13	4		1	3	1					0.6

VE AIRSPEED	MISSION														TIME HOURS		
	WEIGHT	11000	ALTITUDE				40000										
LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
100																	0.0
150																	0.1
200												1					0.1
250						2											0.0
300						3											0.0
350																	
400																	
450																	
500																	
550																	
625																	
700																	
TOTAL						5					1						0.2

TABLE VIII (Continued)

Mission 3 - Nav & General

MISSION	3	WEIGHT		8000		ALTITUDE		1000										TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
LESS																		
100																		0.0
150																		
200																		
250																		
300																		
350																		
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL																		0.0

MISSION	3	WEIGHT		8000		ALTITUDE		1000										TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
LESS																		
100																		0.0
150																		1.3
200																		0.3
250						1	6	12	1									0.0
300							7	9	1									0.0
350								3										0.0
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL						1	17	102	5	1								1.6

MISSION	3	WEIGHT		8000		ALTITUDE		1000										TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
LESS																		
100																		0.0
150																		2.1
200																		1.8
250						1	115	109	18	17		5	3					1.8
300							4	9	2									0.1
350																		
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL						1	193	246	45	42	8	3						5.8

MISSION	3	WEIGHT		8000		ALTITUDE		2000										TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
LESS																		
100																		0.0
150																		2.1
200																		3.0
250																		3.4
300						3	131	254	50	27	21	4						0.2
350							25	24	10	1	2	4						0.0
400							4	2	4									
450																		
500																		
550																		
625																		
700																		
TOTAL						3	206	498	102	52	28	9						8.7

TABLE VIII (Continued)

Mission 3 - Nav & General (Continued)

MISSION	3	WEIGHT		8000		ALTITUDE		5000		TIME HOURS	
		VF AIRSPEED	1E55	-1.0	-0.6	-0.2	0.2	1.4	1.8		N2
LESS											
100										0.4	
150										1.0	
200						1	25	48	1	2.0	
250						1	39	104	10	3	
300							11	15	1	0.2	
350							1	2		0.1	
400											
450											
500											
550											
625											
700											
TOTAL						2	78	171	12	3	3.6

MISSION	3	WEIGHT		8000		ALTITUDE		10000		TIME HOURS
		VF AIRSPEED	1E55	-1.0	-0.6	-0.2	0.2	1.4	1.8	
LESS										
100										0.0
150										0.1
200										0.7
250						1	10	9	1	0.1
300								1		0.0
350										
400										
450										
500										
550										
625										
700										
TOTAL						1	10	10	1	1.0

MISSION	3	WEIGHT		8000		ALTITUDE		15000		TIME HOURS
		VF AIRSPEED	1E55	-1.0	-0.6	-0.2	0.2	1.4	1.8	
LESS										
100										0.0
150										0.0
200								1		0.1
250									1	0.7
300						1	4	7		0.2
350							3	5		
400										
450										
500										
550										
625										
700										
TOTAL						1	7	13	1	1.1

MISSION	3	WEIGHT		8000		ALTITUDE		20000		TIME HOURS				
		VF AIRSPEED	1E55	-1.0	-0.6	-0.2	0.2	1.4	1.8		N2			
LESS														
100										0.0				
150										0.3				
200								4	6	1.5				
250				1	1	1	15	31	4	1				
300							6	14	6	4				
350									4	8				
400									1	3				
450										2				
500										1				
550														
625														
700														
TOTAL				1	1	1	25	51	10	6	15	5	1	2.9

TABLE VIII (Continued)

Mission 3 - Nav & General (Continued)

MISSION	3	WEIGHT		#000		ALTITUDE		30000		NZ								TIME
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS	
LESS																		
100																	0.0	
150																	0.1	
200																	0.4	
250						1											0.1	
300						1												
350																		
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL						2											0.7	

MISSION	3	WEIGHT		#000		ALTITUDE		40000		NZ								TIME
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS	
LESS																		
100																	0.0	
150																	0.0	
200																	0.0	
250																		
300																		
350																		
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL																	0.1	

MISSION	3	WEIGHT		#000		ALTITUDE		LFSS		NZ								TIME
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS	
LESS																		
100																	0.0	
150						3	30	2									0.7	
200						11	13	3									0.4	
250						16	15	4	1								0.2	
300						1	2										0.0	
350																		
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL						31	60	9	1								1.4	

MISSION	3	WEIGHT		#000		ALTITUDE		1000		NZ								TIME
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS	
LESS																		
100																		
150				1		10	29	2									1.3	
200						26	60	12	21	3	1						2.1	
250					1	96	108	28	14	3	2						1.9	
300						4	6	2	1								0.0	
350																		
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL				1	1	136	203	44	36	6	3						5.3	

TABLE VIII (Continued)

Mission 3 - Nav & General (Continued)

MISSION	3	WEIGHT		9000		ALTITUDE		2000		NZ	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
		LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8									
LESS																		
100																		0.0
150																		2.4
200																		4.9
250																		2.6
300																		0.1
350																		
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL																		10.0

MISSION	3	WEIGHT		9000		ALTITUDE		5000		NZ	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
		LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8									
LESS																		
100																		0.6
150																		3.5
200																		3.2
250																		0.4
300																		0.0
350																		0.0
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL																		7.6

MISSION	3	WEIGHT		9000		ALTITUDE		10000		NZ	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
		LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8									
LESS																		
100																		0.0
150																		0.3
200																		0.4
250																		2.7
300																		1.1
350																		0.1
400																		0.0
450																		0.0
500																		
550																		
625																		
700																		
TOTAL																		4.6

MISSION	3	WEIGHT		9000		ALTITUDE		15000		NZ	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
		LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8									
LESS																		
100																		0.0
150																		0.2
200																		0.8
250																		2.8
300																		0.8
350																		0.2
400																		0.1
450																		0.0
500																		
550																		
625																		
700																		
TOTAL																		4.9

TABLE VIII (Continued)

Mission 3 - Nav & General (Continued)

MISSION	3	WEIGHT		ALTITUDE										TIME HOURS				
		9000	20000	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500		6000	6500	7000	
VF AIRSPEED	LESS	-1.0	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
100																		0.0
150						2	1	1										0.2
200					3	26	58	24	6	5	2							3.5
250				1	9	130	285	96	47	34	16	1						11.8
300					4	70	224	64	40	25	16	4						6.5
350						2	5	7	3	5								0.4
400							1											0.0
450																		
500																		
550																		
625																		
700																		
TOTAL				1	16	230	574	187	96	69	38	5						22.4

MISSION	3	WEIGHT		ALTITUDE										TIME HOURS					
		9000	30000	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500		6000	6500	7000		
VF AIRSPEED	LESS	-1.0	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8		
100																			0.0
150						2	7												0.1
200					1	11	31	12	7	3	1								2.5
250					2	39	111	40	24	7	1								6.4
300				1	2	19	56	17	9	1	1								1.8
350						1	1												0.1
400																			
450																			
500																			
550																			
625																			
700																			
TOTAL				1	5	72	201	69	40	11	3								11.0

MISSION	3	WEIGHT		ALTITUDE										TIME HOURS					
		9000	40000	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500		6000	6500	7000		
VF AIRSPEED	LESS	-1.0	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8		
100																			0.1
150							3												1.4
200							1												1.0
250																			
300																			
350																			
400																			
450																			
500																			
550																			
625																			
700																			
TOTAL							4												2.5

MISSION	3	WEIGHT		ALTITUDE										TIME HOURS					
		10000	LESS	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500		6000	6500	7000		
VF AIRSPEED	LESS	-1.0	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8		
100																			0.4
150						1	10	1											0.2
200						6	3		1										0.4
250						11	14	1	2										0.1
300						4	2	1											
350																			
400																			
450																			
500																			
550																			
625																			
700																			
TOTAL						22	29	3	3										1.0

TABLE VIII (Continued)

Mission 3 - Nav & General (Continued)

MISSION	3	WEIGHT										ALTITUDE		10000	TIME				
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ		2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
100																			
150						4		8											0.8
200						10		27		3	4								1.1
250						9		20		10	1								0.5
300						5		3											0.0
350						2		2											1.0
400																			
450																			
500																			
550																			
625																			
700																			
TOTAL						30		60		19	5								2.5

MISSION	3	WEIGHT										ALTITUDE		2000	TIME				
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ		2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
100																			
150																			
200						2		30		1									0.7
250						38		96		1	1		2						2.3
300						2		31		63	8	1	2	2					0.9
350						1		3		11	1	1							0.1
400								1											0.0
450																			
500																			
550																			
625																			
700																			
TOTAL						3		75		200	11	3	2	4					4.1

MISSION	3	WEIGHT										ALTITUDE		5000	TIME				
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ		2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
100																			
150																			
200						1		8		41			2	1					0.3
250						1		18		27			3	3					1.9
300						1		6		8		1		1		2			1.6
350														1					0.6
400														1					0.0
450																			0.0
500																			0.0
550																			0.0
625																			0.0
700																			0.0
TOTAL						3		33		78	6	1	2	6	2				4.3

MISSION	3	WEIGHT										ALTITUDE		10000	TIME				
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ		2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
100																			
150						2		4											0.0
200								5		1									0.1
250								3		1									0.5
300								7		17		3	2	1	1				2.2
350						1		3		12		3	4	1	3				0.9
400						5		2		5		3		1					0.4
450																			0.0
500													1						0.0
550																			0.0
625																			0.0
700																			0.0
TOTAL						6		14		46	3	7	4	5	1				3.9

TABLE VIII (Continued)

Mission 3 - Nav & General (Continued)

MISSION	3	WEIGHT								ALTITUDE								TIME HOURS	
		11000	10000	9000	8000	7000	6000	5000	4000	3000	2000	1000	500	200	100				
VF AIRSPEED		LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
LESS																			
100																			
150																			
200								9	13										0.0
250								12	12										0.2
300							2	14	19										0.2
350								5	8										0.0
400																			
450																			
500																			
550																			
625																			
700																			
TOTAL							2	40	52	6									0.4

MISSION	3	WEIGHT								ALTITUDE								TIME HOURS	
		11000	10000	9000	8000	7000	6000	5000	4000	3000	2000	1000	500	200	100				
VF AIRSPEED		LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
LESS																			
100																			
150								13	14										0.1
200								6	14		2								0.3
250								11	11										0.2
300						1	12	20		4									0.1
350								1											0.0
400																			
450																			
500																			
550																			
625																			
700																			
TOTAL						1	42	60	6	1									0.7

MISSION	3	WEIGHT								ALTITUDE								TIME HOURS	
		11000	10000	9000	8000	7000	6000	5000	4000	3000	2000	1000	500	200	100				
VF AIRSPEED		LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
LESS																			
100																			
150																			
200							1		2										0.2
250								8	10		1								0.6
300								8	12			1							0.6
350								26	56		A	2		1					0.7
400								3	8				1						0.0
450																			
500																			
550																			
625																			
700																			
TOTAL						1	45	88	7	3	2								2.0

MISSION	3	WEIGHT								ALTITUDE								TIME HOURS	
		11000	10000	9000	8000	7000	6000	5000	4000	3000	2000	1000	500	200	100				
VF AIRSPEED		LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
LESS																			
100																			
150																			
200								1	2										0.1
250								1	9										0.5
300								25	71										1.5
350						1	23	33		5	1								1.4
400								6											0.0
450								3	5										0.0
500																			
550																			
625																			
700																			
TOTAL						1	53	76	5	1									3.5

TABLE VIII (Continued)

Mission 3 - Nav & General (Continued)

MISSION	3	HEIGHT										TIME HOURS						
		11000	ALTITUDE															
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ		2.6	3.0	3.8	4.6	5.4	6.6	7.8	
LESS																		
100																		0.0
150																		0.0
200							2	4										0.3
250							8	5	1			1						1.1
300							10	19	1									1.5
350							2	8			2							0.4
400									1									0.0
450																		
500																		
550																		
625																		
700																		
TOTAL							22	36	3	2	1							3.4

MISSION	3	HEIGHT										TIME HOURS						
		11000	ALTITUDE															
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ		2.6	3.0	3.8	4.6	5.4	6.6	7.8	
LESS																		
100																		0.0
150																		0.0
200							2	4	1									0.5
250							7	13			3							1.3
300							5	11	2		1							1.4
350							3	4			1							0.5
400							3	3	1									0.0
450									1									0.0
500																		0.0
550																		
625																		
700																		
TOTAL							20	36	5	5								3.7

MISSION	3	HEIGHT										TIME HOURS						
		11000	ALTITUDE															
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ		2.6	3.0	3.8	4.6	5.4	6.6	7.8	
LESS																		
100																		0.0
150																		0.0
200								9	8		2							0.9
250							1	33	34	1	4							2.9
300					1	4	34	51	5	4								2.9
350						1	7	12	1	1		2						0.7
400						1	1	2										0.0
450																		
500																		
550																		
625																		
700																		
TOTAL						1	7	84	107	7	11	2						7.5

MISSION	3	HEIGHT										TIME HOURS						
		11000	ALTITUDE															
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ		2.6	3.0	3.8	4.6	5.4	6.6	7.8	
LESS																		
100																		0.0
150																		0.0
200							2	1	1									0.2
250							2	6	2									0.9
300							3	5			2							0.5
350								1					1					0.0
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL							7	13	3	2	1							1.5

TABLE VIII (Concluded)

Mission 3 - Nav & General (Concluded)

MISSION VE AIRSPEED	WEIGHT														TIME HOURS		
	11000	ALTITUDE															
	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
LESS																	
100																	0.0
150																	0.0
200						4											0.1
250						6	2										0.0
300																	
350																	
400																	
450																	
500																	
550																	
625																	
700																	
TOTAL						10	2										0.1

TABLE IX Frequencies of n_z Peaks in n_{ze} versus Equivalent Airspeed Intervals by Altitude

a. T-38 Regular

ALTITUDE		LESS														TIME HOURS			
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZE		2.2	2.6	3.0	3.8	4.6		5.4	6.6	7.8
LESS																			
100																			0.2
150																			2.3
200							12	210	26										2.4
250							22	599	81	2	2								0.4
300							3	45	19	2	1	2	2	3					0.2
350							10	15	4	3	2	2	1						
400																			
450																			
500																			
550																			
625																			
700																			
TOTAL							47	869	130	7	5	4	4						5.4

ALTITUDE		1000														TIME HOURS			
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZE		2.2	2.6	3.0	3.8	4.6		5.4	6.6	7.8
LESS																			
100							1	1											1.3
150						3	315	2290	282	18	1								53.6
200						9	525	1309	209	31	14	3							47.4
250							147	792	377	40	12	4	1	1					10.7
300							49	179	116	10	4	2	1						1.3
350							37	54	7	3		2							0.1
400							1	2	1			1							0.0
450											1								0.0
500																			
550																			
625																			
700																			
TOTAL						12	1075	5627	992	103	31	12	2	1					94.5

ALTITUDE		2000														TIME HOURS			
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZE		2.2	2.6	3.0	3.8	4.6		5.4	6.6	7.8
LESS																			
100							2	6	2										2.5
150							17	884	6803	1653	143	6	2						150.2
200							2	47	4204	13124	5735	3312	712	143	1				352.7
250						15	362	17063	28210	12124	7052	2222	619	32	1				428.6
300							3	2	79	2546	8648	2531	585	217	73	10		3	54.8
350									15	189	330	194	41	18	8	1	1		1.5
400									1	43	72	27	8	4	1	1			0.2
450											3	2	1						0.0
500																			
550																			
625																			
700																			
TOTAL						3	19	521	24931	55196	22268	11142	3179	846	44	3	3		990.5

ALTITUDE		5000														TIME HOURS				
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZE		2.2	2.6	3.0	3.8	4.6		5.4	6.6	7.8	
LESS																				
100							12	28											1.2	
150							1	49	1489	3144	346	144	64	19	2				34.8	
200									4										115.1	
250						3	130	5319	9651	2403	638	224	65	10					199.9	
300							3	4	43	1413	4301	2327	272	67	30	12	2	1	82.7	
350									1	6	137	307	151	35	15	19	9	3	3.7	
400										2	36	85	39	15	9	10	12	5	1.0	
450										4	35	49	17	8	3	6	3	4	0.3	
500											6	12	3	1				1	0.1	
550											1	2	3	1					0.0	
625																				
700																				
TOTAL						4		11	255	9004	18227	5316	1117	383	151	48	14	5	1	638.7

TABLE IX - (CONTINUED)

ALTITUDE 10000																TIME	
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
LESS								NZE									0.0
100					1	27	29	6	1								0.3
150					1	45	152	84	33								3.3
200				1	7	81	167	63	46	36	30						11.7
250	1	1	1	2	21	495	858	246	98	82	149	6	2	1			76.1
300		3	1	2	25	460	935	515	190	136	290	279	134	32		1	70.0
350	2	1	1	6	33	259	472	355	164	142	325	379	287	125	10		23.7
400		1	2	6	38	197	243	193	104	87	219	365	369	176	11		13.2
450			1	1	16	127	109	106	66	58	147	164	157	91	3		6.9
500				1	3	15	9	15	11	11	31	23	18	9	2		1.0
550						1					1	2					0.0
625																	
700																	
TOTAL	3	6	6	17	145	1707	2974	1583	713	553	1193	1311	987	437	27		206.0

ALTITUDE 15000																TIME	
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
LESS								NZE									0.0
100				1	9	1245	548	35	2								5.2
150					31	500	2262	918	122	11	3						29.6
200			2	1	48	484	1091	677	399	161	122						44.0
250		4	3	5	86	890	1116	685	561	483	715	377	169	32	1		119.9
300		4	6	14	110	862	1307	953	716	727	1355	1184	846	234	4		117.0
350		3	2	8	80	451	514	445	381	478	1119	1004	487	180	1		46.4
400	1	1	1	4	38	238	247	166	143	176	443	469	231	53	1	1	14.7
450		1		1	7	59	59	42	29	47	119	73	23	11	1		2.8
500						1	2		1	3	6	3	2				0.1
550																	0.0
625																	
700																	
TOTAL		13	14	34	409	4734	7146	3921	2354	2086	3882	3138	1765	512	8	1	379.7

ALTITUDE 20000																TIME	
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
LESS								NZE									0.1
100				1	2	1											2.1
150				1	1	130	793	850	367	62	12	4					14.9
200			1	2	6	166	1648	1881	1177	642	331	166	33	7			133.9
250			9	5	19	242	3496	7704	3983	2191	1271	944	270	71	6	1	483.2
300	1	12	8	21	190	2833	7602	4439	2213	1265	1216	397	113	15			407.3
350		2	2	5	42	391	837	670	350	295	430	156	31	4			51.5
400				1	4	24	38	31	29	35	55	18	4				2.0
450						1	1		1	2	1						0.0
500																	0.0
550																	
625																	
700																	
TOTAL	1	24	19	56	799	9668	19042	10669	5490	3211	2816	84	226	25	1		1095.1

ALTITUDE 30000																TIME	
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
LESS								NZE									0.0
100					1	30	6	1									0.2
150					10	101	134	84	21	2	1						5.8
200			3	4	7	54	923	2562	1526	725	250	57	3	1	2		132.7
250	1	10	7	25	125	2595	9045	4863	2365	861	212	12	5	4			389.7
300	1	2	3	14	62	1091	4039	2064	891	290	112	13	7	2			134.3
350				1	1	20	45	29	22	14	27	6	1	1			1.6
400						2	3	3	2			2					0.0
450								1			1						0.0
500																	
550																	
625																	
700																	
TOTAL	2	15	14	47	253	4763	15844	8573	4026	1417	410	36	14	9			660.3

TABLE IX - (CONTINUED)

ALTITUDE 40000														TIME			
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZE 2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
LESS																	0.0
100					1	8	4	2	1								1.3
150		1	3		4	61	61	26	9	4	4	2					17.5
200		4	3		1	54	56	33	21	7	8	4					13.4
250		3	3	2	1	21	9	12	13	4	2	1					0.3
300				1	1												0.0
350																	
400																	
450																	
500																	
550																	
625																	
700																	
TOTAL		8	6	3	7	144	130	73	44	13	14	7					32.5

ALTITUDE 50000														TIME			
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZE 2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
LESS																	0.0
100																	0.0
150																	0.0
200																	0.0
250																	
300																	
350																	
400																	
450																	
500																	
550																	
625																	
700																	
TOTAL																	0.0

b. T-38 LTF

ALTITUDE LESS														TIME			
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZE 2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
LESS																	0.0
100																	4.8
150						43	200	31	3								9.6
200					1	133	94	18	5	5	6						1.7
250					2	65	94	51	15	1	1						0.2
300						8	15	16	6								
350																	
400																	
450																	
500																	
550																	
625																	
700																	
TOTAL					3	249	403	116	29	6	7						11.4

ALTITUDE 1000														TIME			
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZE 2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
LESS																	0.0
100																	8.6
150					1	3	101	307	61	3	2	1					12.9
200					1	211	260	201	130	25	4						17.8
250					11	864	707	535	307	80	20						0.8
300					4	61	89	45	12	5	6						0.0
350						1	3										
400																	
450																	
500																	
550																	
625																	
700																	
TOTAL					1	19	1238	1366	842	452	112	31					40.2

TABLE IX - (CONTINUED)

ALTITUDE 2000															TIME			
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZE	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
LESS																		0.0
100						1												8.2
150					4	56	327	34										18.4
200					1	2	290	587	211	106	20	3						22.2
250						21	944	1089	452	295	73	21	1					3.3
300						2	179	249	102	27	10	3						0.1
350							11	18	8	2		1	1					0.0
400								1	2									0.0
450							1	2										0.0
500																		
550																		
625																		
700																		
TOTAL				2	29	1482	2273	809	430	103	28	2						52.3

ALTITUDE 5000															TIME			
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZE	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
LESS																		
100																		2.5
150						1	35	36	1									9.3
200						4	110	238	21	2	4	22						16.3
250						5	286	436	78	24	3	11	1					5.3
300						2	82	147	65	19	7	3	3	2				0.4
350						1	6	19	8	3	3	2	4	2	2			0.2
400						1	5	4	3	1	1	4	3	5	3			0.2
450							4		3	1	1	3	1	3				0.2
500							1		1		1		1					0.0
550																		
625																		
700																		
TOTAL					14	529	880	178	50	19	45	12	13	5				34.2

ALTITUDE 10000															TIME				
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZE	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS	
LESS																			
100																		0.0	
150						1	8	32	1									0.1	
200						1	5	105	40	3								1.0	
250							24	74	17	8	5	4	1					2.8	
300						1	8	106	157	60	26	25	32	14				12.9	
350							9	133	154	67	39	28	53	41	8			9.0	
400						1		47	68	44	25	23	47	49	43	19		3.2	
450							3	19	14	17	19	17	28	43	39	17	3	1.4	
500							1	14	4	6	9	13	13	10	9	6	2	0.5	
550								2	3			1	1	3	2			0.1	
625																			
700																			
TOTAL					2	2	2	33	398	561	252	129	112	178	162	140	50	6	30.9

ALTITUDE 15000															TIME			
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZE	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
LESS																		
100																		0.0
150							7	160	19	1								0.3
200							6	58	181	71	5	1						2.0
250							10	63	79	95	46	18	19	2				5.8
300							1	97	170	119	69	58	86	31	15	3		15.7
350							1	10	96	138	95	67	53	96	75	63	14	11.8
400								1	4	40	40	30	29	73	55	32	11	3.2
450								1	2	18	22	14	10	9	29	28	24	0.8
500									1	5	6	3	2	2	11	6	3	0.2
550														3				0.0
625																		
700																		
TOTAL					2	1	4	40	537	655	428	228	170	317	197	137	36	40.4

TABLE IX - (CONCLUDED)

ALTITUDE 20000		NZE													TIME HOURS		
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
LESS																	0.0
100				1	4	41	6	2									0.1
150				2	10	71	61	15	4	1							1.1
200				1	20	144	216	146	81	28	9						14.7
250		1	1	7	30	451	930	497	263	145	78	14	3				48.7
300				2	19	307	771	394	226	122	107	25	6				35.0
350				1	4	35	53	39	26	24	35	9	1				4.0
400					1	3	4	1	1		4	2					0.1
450																	0.0
500																	
550																	
625																	
700																	
TOTAL		1	1	14	88	1052	2041	1094	601	320	233	52	10				103.8

ALTITUDE 30000		NZE													TIME HOURS		
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
LESS																	0.0
100						1											0.0
150						6	5	2									0.3
200				1	3	44	99	54	21	8	3	1					8.8
250				2	9	97	344	181	79	29	10	1					24.9
300				3	5	47	169	82	37	11	6	1	1				7.7
350						6	6	3	3	1	3	2					0.4
400											1						0.0
450																	
500																	
550																	
625																	
700																	
TOTAL				5	17	201	623	322	140	49	23	5	1				42.1

ALTITUDE 40000		NZE													TIME HOURS		
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
LESS																	
100																	
150						1	1										0.3
200						10	8	1	1		1	1					3.7
250		1	1			11	7	4									2.8
300						6	3	1									0.1
350																	
400																	
450																	
500																	
550																	
625																	
700																	
TOTAL		1	1			28	19	6	1		1	1					6.9

ALTITUDE 50000		NZE													TIME HOURS		
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
LESS																	
100																	0.0
150																	0.0
200																	
250																	
300																	
350																	
400																	
450																	
500																	
550																	
625																	
700																	
TOTAL																	0.0

TABLE X Frequencies of n_z Peaks in n_{ze} versus Equivalent Airspeed Intervals by Altitude for Each Mission Type

a. T-38 Regular

Mission 1 - Training

MISSION		ALTITUDE											LESS	TIME			
VE AIRSPEED		NZE											HOURS				
LESS		-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
100																	0.0
150																	0.4
200						8	120	15									1.1
250						10	427	37		1							0.1
300							13	4									0.0
350							1										
400																	
450																	
500																	
550																	
625																	
700																	
TOTAL						16	561	58		1							1.7

MISSION		ALTITUDE											LESS	TIME			
VE AIRSPEED		NZE											HOURS				
LESS		-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
100																	0.6
150																	17.6
200						3	188	1539	207	11							34.7
250						3	306	855	125	22	11	3					6.3
300							85	501	187	25	9	3					0.3
350							4	32	27	5		1					0.1
400							35	46	7	3		2					0.0
450								2	1			1					
500																	
550																	
625																	
700																	
TOTAL						6	618	2976	554	66	20	10					59.6

MISSION		ALTITUDE											LESS	TIME				
VE AIRSPEED		NZE											HOURS					
LESS		-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8		
100																	1.2	
150																	78.6	
200						1	26	2696	7416	4259	121	5	2				216.2	
250						11	246	11256	19402	9130	5686	1822	498	27	1		294.9	
300						3	1	51	1533	3611	1281	392	150	53	9		31.0	
350								7	106	160	47	10	8	7			0.6	
400								1	41	67	24	6	3	1	1		0.1	
450																		
500																		
550																		
625																		
700																		
TOTAL						3	13	344	16216	35247	16043	8791	2560	675	37	3	2	622.8

MISSION		ALTITUDE											LESS	TIME				
VE AIRSPEED		NZE											HOURS					
LESS		-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8		
100																	0.5	
150																	11.6	
200						1	13	288	270	19							38.3	
250						3	32	667	1036	194	90	32	9	2			100.6	
300						2	88	2977	4816	1364	452	169	45	6			40.2	
350						1	1	639	1863	1078	123	30	9	5			1.4	
400								1	24	78	35	9	3	1	1		0.4	
450									3	14	6	3	4	3	2	3	0.1	
500									2	4	3	1	1	2	2	3	0.1	
550										3	2	1						
625																		
700																		
TOTAL						4	158	4612	8099	2700	681	239	77	20	7	4	1	193.2

TABLE X - (CONTINUED)

Mission 1 - Training (Continued)

MISSION	1	ALTITUDE 10000												TIME HOURS						
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	NZE				2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
LESS																				0.0
100					1	14	18	1												0.2
150					1	28	100	44	16											1.9
200					5	34	61	34	29	26	28	6	2	1						3.8
250					16	188	318	109	45	60	110	78	17	3						32.1
300		1		1	20	212	404	267	136	103	232	222	114	30	1					35.4
350		1	1		22	145	239	198	126	118	275	314	226	114	10					17.8
400		1	2	5	28	135	159	134	83	68	173	294	307	156	10					10.0
450				1	13	90	79	72	46	42	109	131	130	80	2					5.6
500					1	13	8	9	8	9	22	14	14	8	2					0.8
550																				0.0
625																				0.0
700																				0.0
TOTAL	2	3	4	13	107	859	1386	863	509	426	949	1065	812	392	25					103.6

MISSION	1	ALTITUDE 15000												TIME HOURS						
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	NZE				2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
LESS																				0.0
100					1	8	1044	451	30	2										4.5
150					28	438	1821	778	100	11	3									25.5
200			1	1	44	401	814	578	356	146	103	24	7	2						29.0
250			3	3	4	63	564	712	514	476	397	602	324	151	28	1				66.4
300			3	4	10	89	597	816	678	570	581	1100	987	739	207	4				71.9
350			2	2	6	67	345	338	313	300	368	871	813	403	153					31.6
400			1	1	2	28	193	193	131	111	126	334	377	193	43	1	1			11.0
450			1	1	1	5	49	38	33	23	35	84	58	17	9	1				2.0
500								2		1	3	3	2	1						0.1
550																				0.0
625																				0.0
700																				0.0
TOTAL		6	11	25	332	3635	5185	3055	1939	1667	3100	2585	1511	442	7	1				241.9

MISSION	1	ALTITUDE 20000												TIME HOURS						
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	NZE				2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
LESS																				0.1
100					2															1.3
150				1	1	18	153	81	16	1										11.0
200				1	1	105	603	542	248	45	10	3								68.7
250				1	4	143	1181	1003	737	420	234	121	28	6						227.0
300			3	1	12	144	1829	3520	1948	1116	703	634	219	63	5					193.6
350			5	2	15	107	1361	3284	2063	1159	711	773	286	92	13					26.1
400			1	1	3	25	197	372	336	211	188	292	102	22	2					1.1
450					1	3	14	18	19	21	23	38	14	4						0.0
500							1				1	1								0.0
550																				0.0
625																				0.0
700																				0.0
TOTAL		9	7	39	545	5339	8870	5367	2974	1870	1862	649	187	20						528.8

MISSION	1	ALTITUDE 30000												TIME HOURS						
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	NZE				2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
LESS																				0.0
100						5	3	1												0.1
150						35	68	37	6											1.9
200				1	3	22	322	840	562	282	96	20	1							36.4
250				4	7	41	823	2823	1715	903	331	77	4	1						102.1
300				1	5	22	323	1210	697	312	109	36	6	4	1					36.3
350						1	6	15	9	7	2	2	3	1						0.4
400							2	1	1				1							0.0
450																				0.0
500																				0.0
550																				0.0
625																				0.0
700																				0.0
TOTAL			6	15	91	1516	4960	3037	1510	538	135	15	6	1						177.1

TABLE X - (CONTINUED)

Mission 1 - Training (Concluded)

MISSION	1	ALTITUDE ±0000													TIME HOURS					
		VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZE	2.2	2.6	3.0		3.8	4.6	5.4	6.6	7.8
LESS																				0.0
100																				0.2
150																				2.0
200				1		1		1		1										1.6
250								10		11		6	4	1	4					0.1
300								3		1		1	3		2					
350																				
400																				
450																				
500																				
550																				
625																				
700																				
TOTAL			1		1	27	26	11	9	3	8	3								3.8

MISSION	1	ALTITUDE ±0000													TIME HOURS						
		VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZE	2.2	2.6	3.0		3.8	4.6	5.4	6.6	7.8	
LESS																					0.0
100																					0.0
150																					
200																					
250																					
300																					
350																					
400																					
450																					
500																					
550																					
625																					
700																					
TOTAL																					0.0

TABLE X - (CONTINUED)

Mission 2 - Formation (Concluded)

MISSION	2	ALTITUDE 40000														TIME	
VF AIRSPEED	LESS	-1.8	-1.0	-0.4	-0.2	0.2	1.4	1.8	NZE 2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
LESS																	
100																	
150																	
200																	0.0
250							2										0.1
300							1										0.2
350																	0.0
400																	
450																	
500																	
550																	
625																	
700																	
TOTAL							3										0.3

TABLE X - (CONTINUED)

Mission 3 - Nav & General (Continued)

MISSION		3 ALTITUDE 10000													TIME		
VE AIRSPEED		NZE													HOURS		
LESS		-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
100																	0.0
150						1	8										0.4
200						25	60	9	2	1							5.3
250					4	251	440	87	14	8	13	1					35.8
300					1	197	437	194	26	14	29	16	6	1			28.0
350					7	80	181	114	16	9	29	28	23	2			7.0
400				1	4	35	55	35	10	8	25	33	25	7	1		1.7
450					1	11	11	10	10	5	15	13	11	6	1		0.4
500					1				1		3	3	1				0.1
550																	
625																	
700																	
TOTAL				1	18	600	1162	440	79	45	114	94	66	16	2		78.6

MISSION		3 ALTITUDE 15000													TIME		
VE AIRSPEED		NZE													HOURS		
LESS		-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
100						41	36	3									0.2
150						10	213	38	8								1.7
200					1	50	224	47	16	5	4						11.3
250		1			18	263	327	126	48	48	61	26	8				44.1
300				3	12	207	409	210	97	93	162	98	45	4			35.8
350				1	6	67	122	90	50	79	169	103	41	9			10.7
400					4	20	20	16	14	33	69	52	20	5			2.3
450				1	1	3	6	3	3	9	20	6	2	3			0.6
500											1						0.0
550																	
625																	
700																	
TOTAL		1		5	42	661	1357	533	236	287	486	287	114	21			106.3

MISSION		3 ALTITUDE 20000													TIME		
VE AIRSPEED		NZE													HOURS		
LESS		-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
100						1	7	1									0.0
150						8	7	1									0.1
200					1	14	302	462	304	148	89	28	2				51.0
250				1	4	66	1312	3370	1618	853	426	216	23	3		1	209.4
300				3	5	64	1163	3484	1935	844	415	296	57	10	1		173.3
350					2	11	153	361	263	106	74	73	24	3			19.4
400						8	14	8	7	8	8	2					0.5
450																	0.0
500																	
550																	
625																	
700																	
TOTAL				4	12	162	2978	7968	4151	1984	993	621	110	18	1	1	455.9

MISSION		3 ALTITUDE 30000													TIME		
VE AIRSPEED		NZE													HOURS		
LESS		-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
100						5											0.0
150						35	49	36	13	1	1						0.0
200					3	24	481	1483	813	381	137	29	2	1	2		3.3
250		1			12	63	1495	5302	2608	1244	491	102	7	1	4		82.3
300				1	7	32	631	2341	1103	459	138	42	3	1			240.6
350					1		5	16	9	3	1	1					81.3
400																	0.8
450																	
500																	
550																	
625																	
700																	
TOTAL		2	1	23	123	2652	9191	4569	2102	728	175	12	3	6			408.5

TABLE X - (CONTINUED)

Mission 3 - Nav & General (Concluded)

MISSION VE AIRSPEED	3	ALTITUDE 40000														TIME HOURS			
		LESS	-1.8	-1.0	-0.4	-0.2	0.2	1.4	NZE		2.6	3.0	3.8	4.6	5.4		6.6	7.8	
LESS																			
100																			0.9
150																			11.8
200																			8.7
250			1		2	22	31	9	2	2	2								0.1
300						18	31	8	2	4	3								
350						2	1		2										
400																			
450																			
500																			
550																			
625																			
700																			
TOTAL			1		2	44	64	18	6	6	5		1						21.6

TABLE X - (CONTINUED)

Mission 4 - Administrative

MISSION		ALTITUDE LESS														TIME HOURS		
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZE		2.6	3.0	3.8	4.6	5.4		6.6	7.8
LESS																		
100																		0.0
150							5	1										0.1
200						1	4	4	1									0.1
250							4	2										0.0
300							1	1	2			1						0.0
350																		
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL						1	14	8	3		1							0.2

MISSION		ALTITUDE 1000														TIME HOURS		
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZE		2.6	3.0	3.8	4.6	5.4		6.6	7.8
LESS																		
100							1											0.0
150							4	22	5	1								1.0
200							4	9	4									0.7
250						1	9	9										0.2
300							6	6	1									0.1
350																		
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL						10	46	24	2									1.9

MISSION		ALTITUDE 2000														TIME HOURS		
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZE		2.6	3.0	3.8	4.6	5.4		6.6	7.8
LESS																		
100																		0.1
150							13	110	32									3.1
200							72	204	60	41	12	3						5.3
250						6	261	436	142	68	23	7						6.8
300						4	52	121	61	12	5	4						1.3
350						2	17	44	4	1								0.1
400								4	1	2								0.0
450								1	1	1								0.0
500																		
550																		
625																		
700																		
TOTAL						13	415	920	301	125	40	14						16.6

MISSION		ALTITUDE 5000														TIME HOURS		
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZE		2.6	3.0	3.8	4.6	5.4		6.6	7.8
LESS																		
100							6	25										0.0
150							47	130	24	13	5							1.4
200							162	370	106	18	9							4.3
250		1				5	69	182	108	20	12	8	2					6.7
300		2				4	25	59	31	10	7	7	6	1				3.4
350						1	24	37	22	11	4	6	7	1				0.5
400						3	31	44	13	6	2	3	2	2				0.3
450							3	10	3	1		2						0.1
500							1	2	3	1		1						0.0
550																		0.0
625																		
700																		
TOTAL		3				15	368	809	310	79	40	29	24	6				16.8

TABLE X - (CONTINUED)

Mission 4 - Administrative (Continued)

MISSION		ALTITUDE 10000													TIME HOURS		
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4		6.6	7.8
LESS																	
100						13	11	5									0.1
150						13	44	37	18								0.9
200						18	38	17	13								2.1
250	1	1	1		2	30	60	38	16	11	17	9					3.5
300		2	1		2	31	47	36	19	13	17	19					2.5
350					4	19	28	23	14	8	10	20	15		3		1.6
400					2	16	20	19	7	5	9	15	14		3		0.7
450					1	16	11	16	5	5	12	7	3				0.4
500				1		3	2	5	3	2	7	4	1				0.1
550						1					1	2					0.0
625																	
700																	
TOTAL	1	3	2	3	12	160	261	196	95	51	76	76	39	6			12.0

MISSION		ALTITUDE 15000													TIME HOURS		
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4		6.6	7.8
LESS																	
100					1	85	26	1									0.2
150						24	86	46	6								0.7
200			1		1	8	13	11	10		1						1.4
250		2			2	11	13	7	7	5	4	4	1				2.4
300		1	2	1	1	7	15	9	7	10	13	16	9		2		1.8
350		1			3	14	17	12	11	8	14	11	9		3		0.9
400		1			2	16	21	10	5	4	5	8	3		1		0.5
450						6	11	6	3	1	2	1	1				0.2
500																	0.0
550																	0.0
625																	
700																	
TOTAL		5	3	1	10	171	202	102	49	28	39	40	23	6			8.1

MISSION		ALTITUDE 20000													TIME HOURS		
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4		6.6	7.8
LESS																	
100						6	319	60	4								0.0
150						10	121	226	81	10							0.6
200			1	1	1	1	23	44	44	20							0.9
250			6	3	2	3	41	86	57	32	19	12	2	1			3.9
300	1	7	2		3	37	66	40	24	21	18	7	2		2		9.3
350		1	1		2	15	25	19	5	6	10	3	1				7.7
400					1	1	6	3			1						1.9
450																	0.2
500																	0.0
550																	
625																	
700																	
TOTAL	1	15	7	3	26	557	513	243	91	51	42	12	4	2			24.5

MISSION		ALTITUDE 30000													TIME HOURS		
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4		6.6	7.8
LESS																	
100						1	21	3	1								0.0
150							27	13	11	1							0.1
200			3	3	1	4	53	44	27	8	3	3					0.2
250	1	8	2	3	6	36	74	51	23	13	12	1	1				4.5
300	1	2	2	1	2	20	33	27	27	15	25	3	2		1		12.0
350						6	4	6	9	11	23	4			1		3.5
400							1	1	2								0.3
450												1					0.0
500											1						0.0
550																	
625																	
700																	
TOTAL	2	13	7	5	13	165	172	124	70	42	64	9	3	2			20.6

TABLE X - (CONTINUED)

Mission 4 - Administrative (Concluded)

MISSION		ALTITUDE 40000													TIME HOURS		
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZE 2.2	2.6	3.0	3.8	4.6	5.4		6.6	7.8
LESS																	0.0
100						4	3	1	1								0.2
150		4	2		2	25	17	14	5	1		1					3.5
200		3	2	2	1	25	11	18	15	2	1	1					2.9
250				1	1	16	6	11	8	3		1					0.2
300																	0.0
350																	
400																	
450																	
500																	
550																	
625																	
700																	
TOTAL		8	4	3	4	70	37	44	29	6	1	3					6.8

MISSION		ALTITUDE 50000													TIME HOURS		
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZE 2.2	2.6	3.0	3.8	4.6	5.4		6.6	7.8
LESS																	0.0
100																	0.0
150																	0.0
200																	0.0
250																	0.0
300																	
350																	
400																	
450																	
500																	
550																	
625																	
700																	
TOTAL																	0.0

TABLE X - (CONTINUED)

b. T-38 LTF

Mission 1 - Training

MISSION	1	ALTITUDE											LESS		TIME			
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZE	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
100																		0.0
150						30	136	18	1									2.3
200						104	67	9	4	5	6							3.6
250						25	57	32	3	1	1							0.8
300						2	9	9	3									0.1
350																		
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL						1:1	269	68	17	6	7							6.9

MISSION	1	ALTITUDE											1000		TIME			
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZE	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
100																		0.0
150						3	54	229	48	3	1	1						4.0
200						1	123	138	148	94	19	3						7.4
250						9	634	529	466	287	77	19						13.1
300						3	41	62	30	8	5	6						0.5
350																		
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL						16	852	958	692	392	102	28						25.1

MISSION	1	ALTITUDE											2000		TIME			
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZE	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
100																		0.0
150						1	1	23	177	29								2.4
200						2	147	216	154	93	18	1						6.5
250						13	655	679	357	240	59	16	1					13.5
300						1	103	126	49	14	3	2						1.8
350							4	3		1				1				0.1
400								1	2									0.0
450							1	2										0.0
500																		
550																		
625																		
700																		
TOTAL						1	17	934	1204	591	348	80	19	2				24.4

MISSION	1	ALTITUDE											5000		TIME			
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZE	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
100																		0.7
150						1	22	14	1									1.8
200						2	40	45	5	1	3	20						1.8
250						2	102	162	25	16	3	8	1					7.2
300							12	55	27	8	4	2	1	2				2.3
350						1		5	7	1	1	4	2	2				0.1
400							4	2		1	1	3	3	5	3			0.1
450							4		1	1	1	3	1	3				0.2
500							1		1		1		1	1				0.0
550																		
625																		
700																		
TOTAL						6	185	283	62	27	13	37	10	13	5			12.5

TABLE X - (CONTINUED)

Mission 1 - Training (Continued)

MISSION	1	ALTITUDE 10000												TIME HOURS					
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	NZE			2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
LESS																			0.0
100				1		6	27												0.1
150					1	4	75	25	1										0.6
200						9	9	8	5	4	1								1.2
250			1		3	47	82	46	18	21	26	13	8						5.7
300					3	46	57	30	28	23	43	40	39	8					4.6
350		1			6	27	30	23	20	44	47	43	18	1					2.0
400					3	18	9	16	15	15	28	42	38	15	3				1.2
450					1	11	3	5	8	11	12	10	9	6	2				0.4
500						1	1			1	1	3	2						0.1
550												1							
625																			
700																			
TOTAL		1		2	17	162	293	161	101	55	158	157	139	47	6				15.9

MISSION	1	ALTITUDE 15000												TIME HOURS					
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	NZE			2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
LESS																			0.0
100						148	17	1											0.3
150					7	54	169	69	5	1									2.3
200					6	57	61	87	41	17	18	2							3.7
250			1		8	63	108	96	66	54	78	29	14	3					8.2
300		1			8	69	109	82	58	47	85	72	62	13					7.5
350		1			3	3	28	27	26	25	61	52	31	10					2.3
400					1	1	13	13	11	8	23	26	24	7					0.6
450					1	5	5	3	1	2	9	5	3						0.1
500											3								0.0
550																			
625																			
700																			
TOTAL		2	1	4	34	437	509	376	205	154	277	186	134	33					24.9

MISSION	1	ALTITUDE 20000												TIME HOURS					
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	NZE			2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
LESS																			0.0
100					1	3	19	2											0.1
150					1	9	36	31	7	3									0.7
200						17	86	87	73	43	13	3	2						5.2
250			1		3	10	180	355	194	104	51	37	13	3					18.0
300					2	6	127	322	161	93	55	67	19	6					15.5
350					1	2	19	33	20	13	14	29	9	1					1.8
400							2	2		1		3	2						0.1
450																			0.0
500																			
550																			
625																			
700																			
TOTAL		1		8	47	469	832	455	257	133	139	45	10						41.4

MISSION	1	ALTITUDE 30000												TIME HOURS					
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	NZE			2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
LESS																			0.0
100						1	1	1											0.1
150						10	29	19	5	3	2	1							1.2
200						3	29	119	67	30	12	5	1						4.5
250					1	2	14	67	32	17	5	2	1	1					2.2
300							1	1				2	2						0.0
350												1							0.0
400																			
450																			
500																			
550																			
625																			
700																			
TOTAL				1	6	55	217	119	52	20	12	5	1						8.0

TABLE X - (CONTINUED)

Mission 2 - Formation

MISSION	2	ALTITUDE 1000																
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	NZE			2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
100																		
150																		
200						3	4	2										0.1
250						1	3											0.1
300																		0.0
350							1											0.0
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL						4	8	2										0.2

MISSION	2	ALTITUDE 2000																
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	NZE			2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
100																		
150																		
200																		
250						1	2											0.2
300						10	31	5	1									0.6
350						14	30	6	3	2								0.4
400						4	13	3	3	1								0.1
450								1										0.0
500																		
550																		
625																		
700																		
TOTAL						29	76	15	7	3								1.4

MISSION	2	ALTITUDE 5000																
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	NZE			2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
100																		
150																		
200								2										0.2
250								6										0.2
300						3	12	2										0.2
350						1	4	1										0.1
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL						5	24	3										0.7

MISSION	2	ALTITUDE 10000																
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	NZE			2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
100																		
150																		
200																		
250																		0.0
300						4	3											0.1
350																		0.0
400																		0.0
450																		
500																		
550																		
625																		
700																		
TOTAL						4	3											0.1

TABLE X - (CONTINUED)

Mission 2 - Formation (Concluded)

MISSION		2												ALTITUDE		15000												TIME
VF AIRSPEED		LESS																								HOURS		
		-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZE		2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8										
LESS																			0.0									
100																			0.1									
150																			0.1									
200																			0.1									
250																			0.0									
300							2																					
350							3	2																				
400											1																	
450																												
500																												
550																												
625																												
700																			0.2									
TOTAL							5	2			1																	

MISSION		2												ALTITUDE		20000												TIME
VF AIRSPEED		LESS																								HOURS		
		-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZE		2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8										
LESS																			0.0									
100																			0.1									
150																			0.1									
200																			0.6									
250							3	7		3	1		1						0.5									
300							4	6		4	4		1		2				0.1									
350							2	1		1				1														
400																												
450																												
500																												
550																												
625																												
700																			1.3									
TOTAL							9	15		8	7	2	3															

MISSION		2												ALTITUDE		30000												TIME
VF AIRSPEED		LESS																								HOURS		
		-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZE		2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8										
LESS																			0.0									
100																			0.1									
150																			0.2									
200							1	1		2	1								0.1									
250								2		5																		
300								2		1																		
350																												
400																												
450																												
500																												
550																												
625																												
700																			0.4									
TOTAL							1	5		8	1																	

TABLE X - (CONTINUED)

Mission 3 - Nav & General

MISSION		3		ALTITUDE												LESS	NZE												TIME
VE AIRSPEED		LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS											
100	LESS																	0.0											
150							13	62	13	2								2.4											
200						1	28	26	9	1								0.9											
250						2	40	37	19	5								0.9											
300							6	6	7	2								0.1											
350																													
400																													
450																													
500																													
550																													
625																													
700																													
TOTAL						3	87	131	-8	10								4.4											

MISSION		3		ALTITUDE												1000	NZE												TIME
VE AIRSPEED		LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS											
100	LESS																	0.0											
150						1	43	71	11		1							4.3											
200							87	116	52	34	6	1						5.3											
250						2	225	175	68	20	3	2						4.5											
300						1	19	23	14	4								0.2											
350							1	3										0.0											
400																													
450																													
500																													
550																													
625																													
700																													
TOTAL						1	3	375	388	145	58	10	3					14.4											

MISSION		3		ALTITUDE												2000	NZE												TIME
VE AIRSPEED		LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS											
100	LESS																	0.0											
150							3	31	141	7								5.3											
200						1	130	311	48	10	2	2						10.8											
250						8	229	333	76	35	8	5						7.5											
300						1	51	88	39	9	6	1						1.2											
350							7	8	5									0.1											
400																													
450																													
500																													
550																													
625																													
700																													
TOTAL						1	12	448	881	170	54	16	9					24.8											

MISSION		3		ALTITUDE												5000	NZE												TIME
VE AIRSPEED		LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS											
100	LESS																	1.5											
150							2	63	148	10	1	1	2					6.7											
200						2	137	221	41	3		3						8.2											
250						2	49	63	24	7	1	1	2					2.5											
300							3	7	7	2	1	1						0.1											
350							2	3	3									0.0											
400																		0.0											
450																													
500																													
550																													
625																													
700																													
TOTAL						6	266	452	80	13	3	7	2					19.1											

TABLE X - (CONTINUED)

Mission 5 - Nav & General (Continued)

MISSION		ALTITUDE 10000													TIME HOURS			
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZE	2.2	2.6	3.0	3.8	4.6		5.4	6.6	7.8
100						1	4											0.0
150							10	2										0.4
200							8	7										1.4
250					3	34	55	9	7	4		6	1					6.7
300					1	28	41	16	8	3	7							3.6
350					4	7	10	9		3	1							0.9
400									1				1					0.0
450										1						1		0.0
500											1							0.0
550																		0.0
625																		0.0
700																		0.0
TOTAL					8	78	127	41	16	11	14	2			1			13.0

MISSION		ALTITUDE 15000													TIME HOURS			
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZE	2.2	2.6	3.0	3.8	4.6		5.4	6.6	7.8
100						10												0.0
150						3	12	1										0.3
200						6	16	9	4			1						1.9
250							31	59	23	3	5	7	2					7.2
300					2	24	25	13	9	5	11	3	2					4.0
350					2	24	25	13	9	5	11	3	2					0.8
400					1	9	12	7	2	2	10	3	2		1			0.1
450						3	6	1	1		3	2						0.0
500									1		1	1						0.0
550																		0.0
625																		0.0
700																		0.0
TOTAL					5	86	130	49	20	12	33	11	2	2				14.4

MISSION		ALTITUDE 20000													TIME HOURS			
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZE	2.2	2.6	3.0	3.8	4.6		5.4	6.6	7.8
100						3	3	2	1									0.0
150						58	119	72	36	16	5							0.4
200							18	266	562	298	151	93	40	2				9.1
250					1	3	18	266	562	298	151	93	40	2				29.5
300					1	12	175	441	227	130	66	39	5					18.7
350						2	12	19	20	12	10	6						2.0
400						1	1	2										0.0
450																		0.0
500																		0.0
550																		0.0
625																		0.0
700																		0.0
TOTAL					1	5	37	515	1146	619	330	185	90	7				59.8

MISSION		ALTITUDE 30000													TIME HOURS			
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZE	2.2	2.6	3.0	3.8	4.6		5.4	6.6	7.8
100						5	4	1										0.0
150						31	69	32	13	4	1							0.3
200					1	3	64	219	105	47	15	3						7.2
250							3	64	219	105	47	15	3					7.2
300					1	3	31	100	47	17	5	2						19.2
350							1	3	2									5.2
400												1						0.2
450																		0.0
500																		0.0
550																		0.0
625																		0.0
700																		0.0
TOTAL					2	8	132	395	187	77	24	7						32.2

TABLE X - (CONTINUED)

Mission 3 - Nav & General (Concluded)

MISSION	3	ALTITUDE 40000											TIME HOURS				
		LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.0	1.8	2.2	2.6	3.0		3.8	4.6	5.4	6.6
VF AIRSPEED																	
LESS																	
100																	
150																	
200																	
250						6		4		1							0.2
300						5		3		1							3.0
350																	2.2
400																	0.0
450																	
500																	
550																	
625																	
700																	
TOTAL						11		8		1		1					5.4

TABLE X - (CONTINUED)

Mission 4 - Administrative

MISSION	4	ALTITUDE LESS										TIME HOURS						
		LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	NZE		2.6		3.0	3.8	4.6	5.4	6.6	7.8
LESS																		
100																		0.0
150																		0.1
200																		0.0
250																		0.0
300																		0.0
350																		0.0
400																		0.0
450																		0.0
500																		0.0
550																		0.0
625																		0.0
700																		0.0
TOTAL																		0.1

MISSION	4	ALTITUDE 1000										TIME HOURS						
		LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	NZE		2.6		3.0	3.8	4.6	5.4	6.6	7.8
LESS																		
100																		0.0
150																		0.2
200																		0.1
250																		0.2
300																		0.0
350																		0.0
400																		0.0
450																		0.0
500																		0.0
550																		0.0
625																		0.0
700																		0.0
TOTAL																		0.5

MISSION	4	ALTITUDE 2000										TIME HOURS						
		LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	NZE		2.6		3.0	3.8	4.6	5.4	6.6	7.8
LESS																		
100																		0.0
150																		0.2
200																		0.5
250																		0.8
300																		0.2
350																		0.0
400																		0.0
450																		0.0
500																		0.0
550																		0.0
625																		0.0
700																		0.0
TOTAL																		1.7

MISSION	4	ALTITUDE 5000										TIME HOURS						
		LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	NZE		2.6		3.0	3.8	4.6	5.4	6.6	7.8
LESS																		
100																		0.2
150																		0.6
200																		0.7
250																		0.4
300																		0.1
350																		0.0
400																		0.0
450																		0.0
500																		0.0
550																		0.0
625																		0.0
700																		0.0
TOTAL																		2.0

TABLE X - (CONTINUED)

Mission 4 - Administrative (Continued)

MISSION	4	ALTITUDE 10000											TIME HOURS								
		VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	NZE		1.8		2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8
LESS																					
100							1	1													0.0
150							1	20	14	2											0.1
200							7	8	3												0.2
250							20	18	4	1											0.4
300			1	2		6	60	55	22	3	1	2									0.8
350							20	28	4	2	1	3									0.2
400							2	5	2	3	1	1			2		1		2		0.1
450							2	2	1	1	1	1			1						0.1
500							1	1				1									0.0
550																					0.0
625																					0.0
700																					0.0
TOTAL			1	2		8	114	138	50	12	5	6	3	1	2						1.8

MISSION	4	ALTITUDE 10000											TIME HOURS								
		VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	NZE		1.8		2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8
LESS																					
100							2	1													0.0
150							1														0.0
200								2		1											0.1
250							1	3													0.3
300							1	3				1	1								0.1
350							3	2	1			2	2			1					0.1
400							1	1	1	1		1	2				1				0.1
450						1		2	1	1		2	2								0.1
500																					0.0
550																					0.0
625																					0.0
700																					0.0
TOTAL						1	9	14	3	2	4	7			1	1					0.9

MISSION	4	ALTITUDE 20000											TIME HOURS								
		VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	NZE		1.8		2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8
LESS																					
100							1	21	4	2											0.1
150						1	1	32	27	5											0.1
200									9	2	1										0.2
250							1	3	5	2	5			1							0.6
300							1	1	2	1											0.2
350								2	1		1										0.1
400																					0.0
450																					0.0
500																					0.0
550																					0.0
625																					0.0
700																					0.0
TOTAL						1	4	59	48	12	7			1							1.3

MISSION	4	ALTITUDE 10000											TIME HOURS								
		VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	NZE		1.8		2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8
LESS																					
100								1													0.0
150																					0.0
200								1	2	1	1	1									0.0
250							1	1	4	2	4	3	1	1							0.3
300						1	1	4	2	1	2	3	1	2							0.9
350						2	1	2	1	4	2	3	2	2							0.2
400								4	2	1	3	1	1								0.1
450																					0.0
500																					0.0
550																					0.0
625																					0.0
700																					0.0
TOTAL						3	3	13	6	8	10	5	4								1.5

TABLE X - (CONCLUDED)

Mission 4 - Administrative (Concluded)

MISSION 4		ALTITUDE 40000													TIME HOURS		
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZE 2.2	2.6	3.0	3.8	4.6	5.4		6.6	7.8
LESS																	
100																	
150																	
200			1	1			3	3	1								0.0
250							2	3	3								0.6
300							4	2	1								0.5
350																	0.0
400																	
450																	
500																	
550																	
625																	
700																	
TOTAL		1	1			9	8	5									1.2

MISSION 4		ALTITUDE 40000													TIME HOURS		
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZE 2.2	2.6	3.0	3.8	4.6	5.4		6.6	7.8
LESS																	
100																	
150																	
200																	
250																	
300																	
350																	
400																	
450																	
500																	
550																	
625																	
700																	
TOTAL																	0.0

TABLE XI

Flight Hours, No. of Flights, and No. of
Touch-and-go Landings by Mission Type and
Air Base for Regular and LTF T-38 Data

Data Grouping	Mission Type				Total
	Training	Formation	Nav & General	Administrative	
<u>Williams AFB - Regular I-38 Data</u>					
Flight Hours	871.1	110.8	938.9	59.6	1989.0
No. of Flt's	820	96	803	69	1788
No. of T & Go's	1838	91	276	27	2252
<u>Reese AFB - Regular I-38 Data</u>					
Flight Hours	1061.5	153.8	658.9	48.1	1915.6
No. of Flt's	968	134	564	60	1726
No. of T & Go's	1833	129	153	7	2124
<u>Total - Regular I-38 Data</u>					
Flight Hours	1932.5	264.6	1597.8	107.7	3902.6
No. of Flt's	1788	230	1367	129	3514
No. of T & Go's	3691	220	431	34	4376
<u>Williams AFB - LTF T-38 Data</u>					
Flight Hours	63.3	4.3	70.6	5.4	145.7
No. of Flt's	57	4	59	8	128
No. of T & Go's	124	3	8	0	135
<u>Reese AFB - LTF T-38 Data</u>					
Flight Hours	8.8	0	18.7	3.6	31.2
No. of Flt's	9	0	15	4	28
No. of T & Go's	29	0	4	1	34
<u>Moody AFB - LTF I-38 Data</u>					
Flight Hours	87.1	0	98.1	2.1	187.3
No. of Flt's	87	0	88	3	178
No. of T & Go's	128	0	29	0	157
<u>Total - LTF I-38 Data</u>					
Flight Hours	159.4	4.3	187.4	11.1	362.2
No. of Flt's	153	4	162	18	334
No. of T & Go's	281	3	41	1	326

REFERENCES

1. Clay, L. E., and G. L. Duke, Structural Flight Loads Data from T-38 Aircraft Using A/A24U-10 Recording Sets, Aeronautical Systems Division Technical Report No. ASD-TR-69-99, August 1969.
2. Peckham, C. G., and G. L. Duke, T-38 Flight Loads Data From A/A24U-10 Magnetic Tape Recorders, Technology Incorporated Report No. TI 134-67-1, November 1967.
3. T-38 Interim Data Report - 1 September 1969 through 31 May 1970, Technology Incorporated Data Report on Contract No. F33657-70-C-1161.
4. Clay, L. E., and W. W. Morton, Jr., Structural Flight Loads Data from T-38 Aircraft, Aeronautical Systems Division Technical Report No. SEG-TR-64-68, January 1965.
5. Flight Manual T-38A Aircraft, T.O. 1T-38A-1, 1 December 1962.